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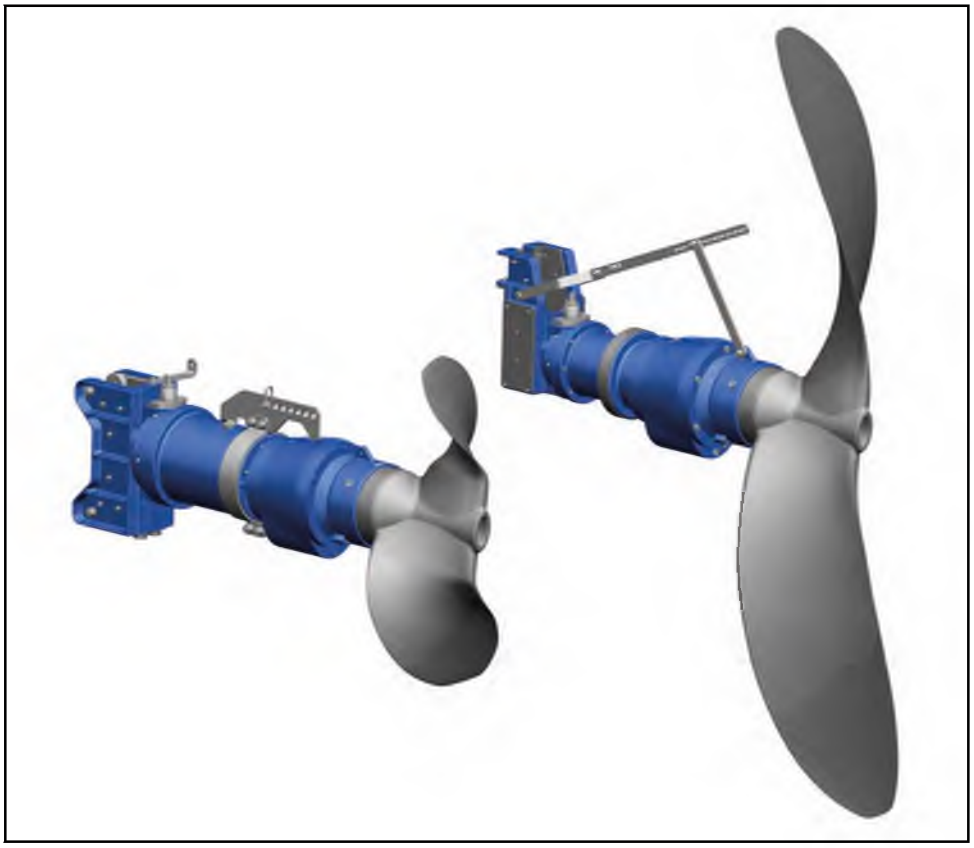
Погружные мешалки KSB. Техническое описание

Submersible Mixer

Amaprop

For Biogas Plants
50 Hz

Type Series Booklet



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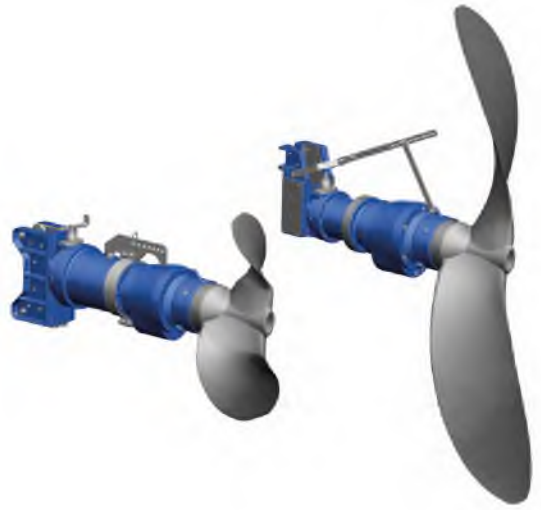
Type Series Booklet Amaprop

Contents

Biogas

Submersible Mixer

Amaprop



Main applications

- For mixing the digestion substrate and homogenising the concentration and temperature in the main digester and post-digester
- To prevent (or destroy and re-homogenise) floating sludge blankets
- For mixing the digestion substrates
  - In mixing tanks
  - In main digesters and post-digesters
  - In final storage tanks (digestate storage tanks)
  - In tanks for semi-liquid manure

Fluids handled

- Fluids with a dry solids content:
  - < 10 % (Amaprop 2500)
  - > 10 % to 15 % (Amaprop 1000 and 1380)

Operating data

Operating properties

Characteristic		Value		
		Amaprop		
		1000	1380	2500
Motor rating	P [kW]	10 to 20	6 to 13	6 to 6.5
Installation depth	H [m]	≤ 10[1)]		
Fluid temperature	T [°C]	Motor versions UR/YR: < 45		
		Motor versions WR/ZR: < 60		

Designation

Example: Amaprop J 184 - 1000 / 16 4 UR G

Designation key

Code	Description	
Amaprop	Type series	
J	Propeller material	
	J	Amaprop 1380: nodular cast iron EN-GJS-400-15
		Amaprop 1000: nodular cast iron EN-GJS-400-15
	K	Amaprop 2500: ceramic-coated composite material
184	Nominal propeller speed [rpm]	
1000	Size/nominal propeller diameter [mm]:	
	1000	
	1380	
	2500	
16	Motor size	
	Amaprop 1000: 11, 16, 23	
	Amaprop 1380: 6, 11, 16, 23	
	Amaprop 2500: 6	
4	Number of motor poles	
UR	Motor version	
	UR	Standard
	YR	Explosion-proof (T4)
	WR	For fluid temperatures up to 60 °C
	ZR	Explosion-proof (T3) up to 60 °C
G	Material variant	
	G	Grey cast iron

Design details

Design

- Fully flooded submersible mixer
- Horizontal installation

Propeller

- Self-cleaning (ECB) propeller

Shaft seal

- Two bi-directional mechanical seals in tandem arrangement, with liquid reservoir
- Additional leakage chamber between the mating ring carrier and the gear unit

Bearings

- Motor-end rolling element bearings, greased for life
- Gear-end rolling element bearings, oil-lubricated

Drive

- Three-phase asynchronous squirrel-cage motor
- Motors integrated in explosion-proof submersible mixers are supplied in Ex d IIB type of protection.

1) Larger installation depths on request

Materials

Overview of available materials

Part No.	Description		Material variant G	
			Amaprop 1000/1380	Amaprop 2500
811	Motor housing		EN-GJL-250	
812	Motor housing cover		EN-GJL-250	
870	Gear housing		EN-GJL-250	
476	Mating ring carrier		EN-GJL-250	
23-9	Propeller		EN-GJS-400-15	Glass fibre reinforced epoxy resin
433.01	Mechanical seal	Drive end	SiC/SiC	
433.02		Propeller end	SiC/SiC	
732	Guide bracket		EN-GJL-250, plastic-lined	EN-GJS-400-15, plastic-lined
-	Propeller shaft		1.4122	
-	Elastomer seals		FPM/NBR	
-	Screws/bolts		A4 (= 1.4571)	

Grey cast iron EN-GJL-250 (lamellar graphite cast iron):
Lamellar graphite cast iron to EN 1561 is the most widely used cast material for handling municipal sewage, waste water and sludges as well as stormwater and surface water. It is suitable for neutral fluids which are only slightly aggressive and cause little wear. The pH value should be ≥ 6.5, the sand content ≤ 0.5 g/l.

Nodular cast iron EN-GJS-400-15

Its ductile structure, mechanical properties and wear resistance make this nodular cast iron to EN 1561 a suitable propeller material. Also suitable for handling digestion substrate.

Glass fibre reinforced epoxy resin

The high-performance composite material consists of glass fibre reinforced epoxy resin, a metal hub insert and a protective gel coating which is resistant to abrasion and chemicals.

Coating and preservation

Primer and top coat

Surface treatment:	SA 2 $^1/_2$ degree of cleanliness to DIN EN ISO 12944
Primer coat:	2-component epoxy resin zinc phosphate primer, min. film thickness = 35 µm
Top coat:	2-component high-solid epoxy resin top coat (RAL 5002), min. film thickness = 100 µm

Special coating

Available from the manufacturer on request (a surcharge and longer delivery time apply).

Product benefits

- Two bi-directional mechanical seals with oil reservoir filled with ecologically acceptable oil provide double safety
- Perfectly protected by absolutely water-tight cable gland protecting the motor against moisture
- Motor monitored by temperature sensors to prevent it from overheating
- Leakage chamber between oil reservoir and gear unit for high reliability
- Easy to install

Amaprop 1000 and 1380:

- Little wear, high break resistance and long service life due to propeller made of nodular cast iron

Amaprop 2500:

- Absolutely break-proof due to propeller blades made of glass fibre reinforced epoxy resin with metal hub insert and ceramic coating.

Acceptance tests / Warranties

- Functional test
  Every submersible mixer is subjected to a functional test to KSB standard ZN 56525.
- Quality is assured by means of an audited and certified quality assurance system to DIN EN ISO 9001.
- Special acceptance tests are available on request.

Warranty information

Our warranty is based on and exclusively applies to your specifications as documented in the data sheet of the submersible mixer, and covers the relevant physical properties. Any warranty claims beyond the aforementioned aspects, as well as any claims resulting from an excessive solids content in the plant, the formation of floating blankets as well as failure to produce a specific gas yield, shall be excluded. The correct positioning of the submersible mixers is crucial for the overall function of the equipment. KSB's warranty obligations shall not cover any damage that may occur as a result of incorrect mixer positioning, i. e. installing the mixer in a position not expressly approved by KSB. In addition, low-flow areas (flow separation) resulting from the tank geometry shall not be covered by our warranty. Furthermore, we shall not assume any liability if our submersible mixers are used in patented processes and/or in case of protected rights of third parties.

Unauthorised modifications, the mixer's use for fluids and operating conditions not specified in the purchase order, as well as the use of non-KSB installation parts without KSB's prior consent will result in the forfeiture of any and all claims for damages. The same applies to consequential damage (e.g. resultant process downtime).

Selection information

- Good mixing results and safe and reliable operation of the submersible mixers essentially depend on the position of the mixers in the tank and relative to each other. It is therefore imperative to position the submersible mixers as shown in KSB's general arrangement drawing. KSB shall not be held responsible for any damage resulting from mixer positions not expressly approved by KSB.

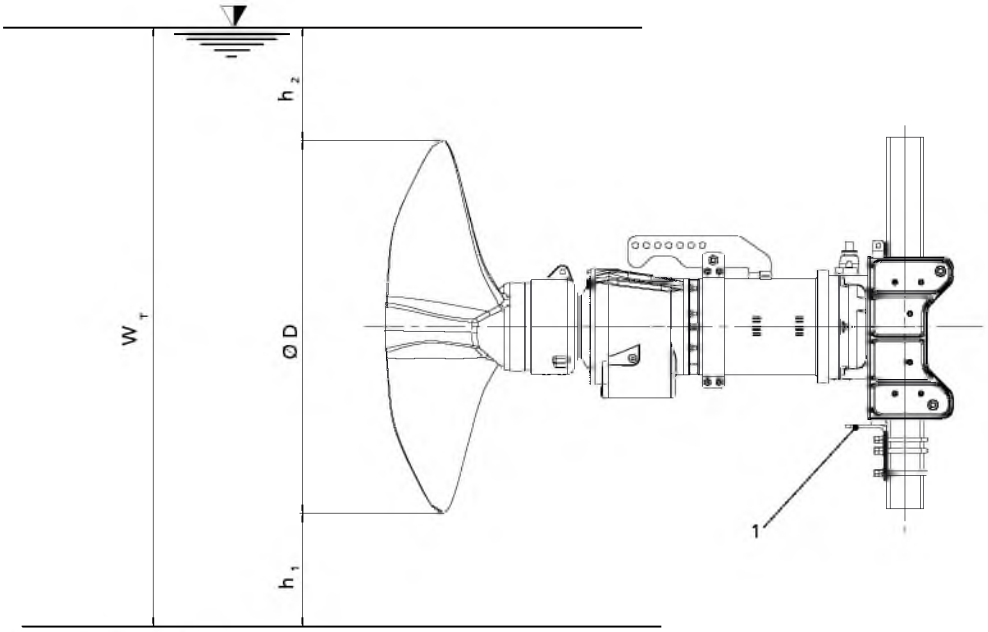
- The minimum and maximum submergence indicated in the data sheet of the submersible mixer must be complied with. The propeller must not be operated outside the fluid. Air-entraining vortices must be avoided. Always use level control equipment which trips the submersible mixer if the fill level drops below the minimum operating level.
- For servicing the submersible mixers, access openings and appropriate means of removal must be provided, so that the mixers can be lifted out of the filled tank at any time. For this purpose, the minimum dimensions for removing the submersible mixers must be observed.
- If the submersible mixer trips due to excessive temperature, check the motor housing for insulating substrate deposits and clean with appropriate equipment (e. g. high-pressure cleaner) as required. Consult KSB, if necessary.
- For higher fill levels, the guide rails of the Amaprop 1000 installation accessories must be secured against vibrations by means of a middle support fitted on site.
- In order to prevent any damage caused by the propeller or layers of floating sludge, if any, cable supports must be used for routing the power cable properly, i.e. without excessive slack.

Information on frequency inverter operation

- All submersible mixers from KSB are suitable for frequency inverter operation.
- The permissible control range is 30 - 50 Hz.
- In addition to any capacity reserves required for hydraulic reasons, a motor power reserve of 5 % must be provided when mixers are operated on frequency inverters.

Minimum level of fluid handled

The submersible mixer is operational when the fluid level is not lower than dimension W_T. This minimum level of the fluid handled must also be ensured during automatic operation.



Minimum level of fluid handled

A submergence h_2 from the top propeller tip to the substrate surface must be ensured to reliably prevent the formation of air-entraining vortices. Air-entraining vortices will cause rough running and damage to submersible mixers and installation parts. The formation of air-entraining vortices can be checked through the sight glasses fitted in the tank wall (⇨ Page 5). The situation can be remedied by increasing the fill level (for Amaprop 2500) or adjusting the installation level of the mixer, if possible. (For Amaprop 1000 and 1380 with accessories set 22: The position of the mixer in relation to the fill level can be adjusted by using the winch. The adjustment can be made by changing the position of the retaining bracket (1) or, in the case of mixers suspended from lifting equipment, via the lifting equipment.)

Minimum level of fluid handled

Ø D	h_1 [2)]	h_2 [2)]
[mm]	[m]	[m]
1000	0,3	0,5
1380	0,3	0,5
2500	0,3	0,5

2) Minimum

Overview of product features

Technical data of material variant G

Feature		Amaprop 1000	Amaprop 1380	Amaprop 2500
Explosion protection				
Motor version UR		Not explosion-proof (fluid temperatures < 45 °C)		
Motor version WR		Not explosion-proof (fluid temperatures < 60 °C)		
Motor version YR		Ex II2G Ex dc IIB T4 (fluid temperatures < 45 °C)		
Motor version ZR		Ex II2G Ex dc IIB T3 (fluid temperatures < 60 °C)		
Motor				
Starting method		DOL or star-delta		
Voltage and frequency		400 V[3] 50 Hz, suitable for frequency inverter operation		
Cooling		By surrounding fluid		
Submergence		Up to 10 m[4]		
Power cable				
Length		10 m[5]		
Cable entry		Totally watertight		
Type		See table "Overview of power cables"		
Bearings				
Motor		Grease-packed rolling element bearings sealed for life		
Gear unit		Oil-lubricated rolling element bearings		
Gear unit		Spur gear		
Sealing elements				
Elastomer seals		Viton (fluorocarbon rubber FPM)		
Shaft seal	Propeller end	Cartridge mechanical seal with covered spring		
	Drive end	Bellows-type mechanical seal		
Monitoring equipment				
Winding temperature		PTC resistor		
Motor leakage		Leakage sensor in the motor space		
Coating		Two-component epoxy resin coating		
Permissible fluid temperature				
Motor versions UR, YR		45 °C		
Motor versions WR, ZR		60 °C		
Acceptance tests		To ISO 9001[6]		
Installation				
Stationary		Installation depth up to 10 m[7]		

Overview of power cables

Feature	Rubber-sheathed cable	
	S1BN8-F	S07RC4N8-F
Version	Standard	Optional
Rated voltage	1000 V	750 V
EMC screening	-	✓
Insulation material	EPR[8]	EPR[8]
Max. continuous temperature of insulation	90 °C	90 °C
For permanent immersion in digestion substrate to DIN VDE 0282-16/ HD22.16	✓	✓

3) Optional: 500 V, 690 V
4) Deeper submergence on request
5) Optional: 15 m, 20 m, > 20 m on request
6) Optional: with test report 10204-2.2
7) Larger installation depths on request
8) EPR = ethylene propylene rubber

Standard and special designs

Standard and special designs

Option	Comments
Power cable > 20 m	Available for all sizes
Analysing device for leakage sensor, thermistor tripping unit for monitoring the winding temperature	Available for all sizes
Special voltages 500 V and 690 V	Available for all sizes
Two-component epoxy resin coating, 250 µm	Available for all sizes
Additional operating manuals	Standard: 1 operating manual per pump set
Customer-specific installation drawing	Available for all sizes
Flow simulation	Available for all sizes
Installation consultancy	Available for all sizes

For any versions not documented in this type series booklet or special versions please always contact KSB for technical details, prices and delivery periods.

Examples:

- Other voltages (except 400 V, 500 V and 690 V)
- Special coatings
- Combinations with special motor/special propeller/special gear unit (e.g. for higher-viscosity fluids)
- Special installation parts
- Special cables
- Tank
- Tank accessories (wall duct for electric cables)
- Access openings and associated covers in tank roof for rapidly removing/re-installing submersible mixers

Technical data

Performance data (400 V, 50 Hz), material variant G

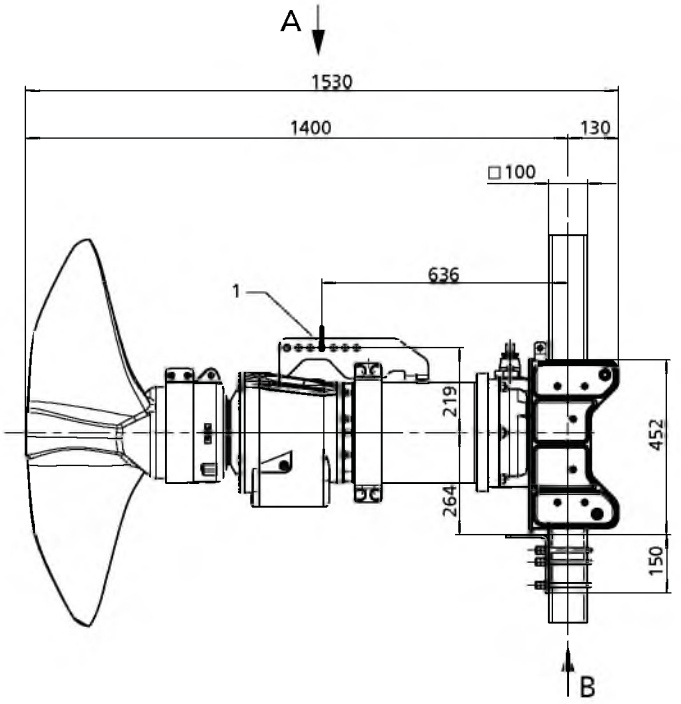
Designation	Propeller speed n_2	Motor rating P_2	Gear unit size	[kg][9]
	[rpm]	[kW]		
Amaprop J 1000 (motor version UR/YR, applications with fluid temperatures of up to 45 °C)				
166-1000/11 4 URG / YRG	166	10	SP 190	327
175-1000/16 4 URG / YRG	175	15	SP 190	340
184-1000/16 4 URG / YRG	184	15	SP 190	340
192-1000/16 4 URG / YRG	192	15	SP 190	340
185-1000/23 4 URG / YRG	185	20	SP 190	351
208-1000/23 4 URG / YRG	208	20	SP 190	351
Amaprop J 1000 (motor version WR/ZR, applications with fluid temperatures from 45 °C to 60 °C)				
166-1000/16 4 WRG / ZRG	166	11,8	SP 190	340
174-1000/16 4 WRG / ZRG	174	11,8	SP 190	340
181-1000/23 4 WRG / ZRG	181	16	SP 190	351
184-1000/23 4 WRG / ZRG	184	16	SP 190	351
189-1000/23 4 WRG / ZRG	189	16	SP 190	351
Amaprop J 1380 (motor version UR/YR, applications with fluid temperatures of up to 45 °C)				
88-1380/6 4 URG / YRG	88	6,5	SP 190	322
99-1380/11 4 URG / YRG	99	10,0	SP 190	322
105-1380/11 4 URG / YRG	105	10,0	SP 190	322
114-1380/16 4 URG / YRG	114	13,0	SP 190	335
Amaprop J 1380 (motor version UR/YR, applications with fluid temperatures from 45 °C to 60 °C)				
88-1380/6 4 WRG / ZRG	88	6,0	SP 190	322
99-1380/16 4 WRG / ZRG	99	10,0	SP 190	335
105-1380/16 4 WRG / ZRG	105	11,8	SP 190	335
114-1380/23 4 WRG / ZRG	114	13,0	SP 190	346
Amaprop K 2500 (motor version UR/YR, applications with fluid temperatures of up to 45 °C)				
38-2500/6 4 URG / YRG	38	6,5	SP 190	276
42-2500/6 4 URG / YRG	42	6,5	SP 190	276
Amaprop K 2500 (motor version WR/ZR, applications with fluid temperatures from 45 °C to 60 °C)				
38-2500/6 4 WRG / ZRG	38	6	SP 190	276
42-2500/6 4 WRG / ZRG	42	6	SP 190	276

9) Weight incl. guide bracket

Dimensions

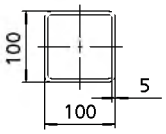
Amaprop 1000

Dimensions [mm]



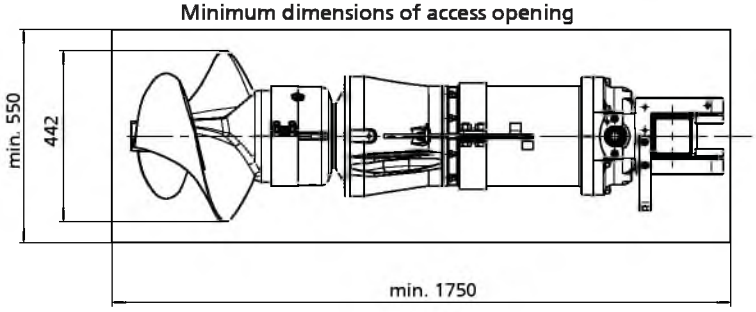
Guide rail

B



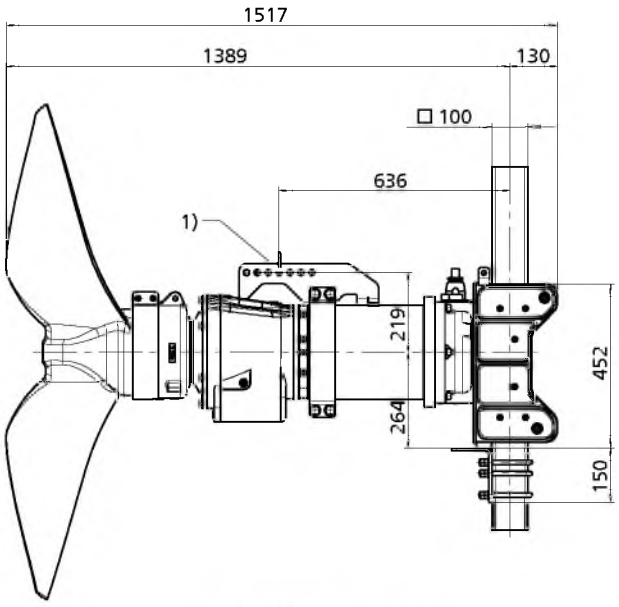
1 = attachment point

Minimum dimensions of access opening



Amaprop 1380

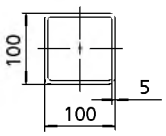
Dimensions [mm]



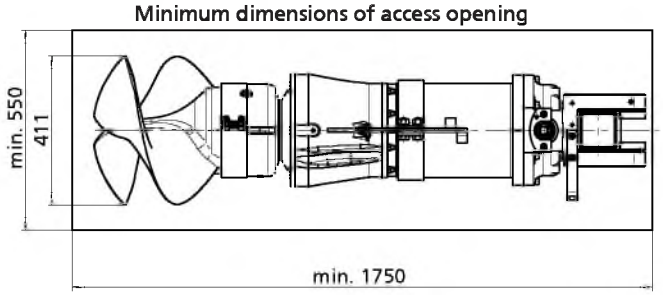
1 = attachment point

Guide rail

B

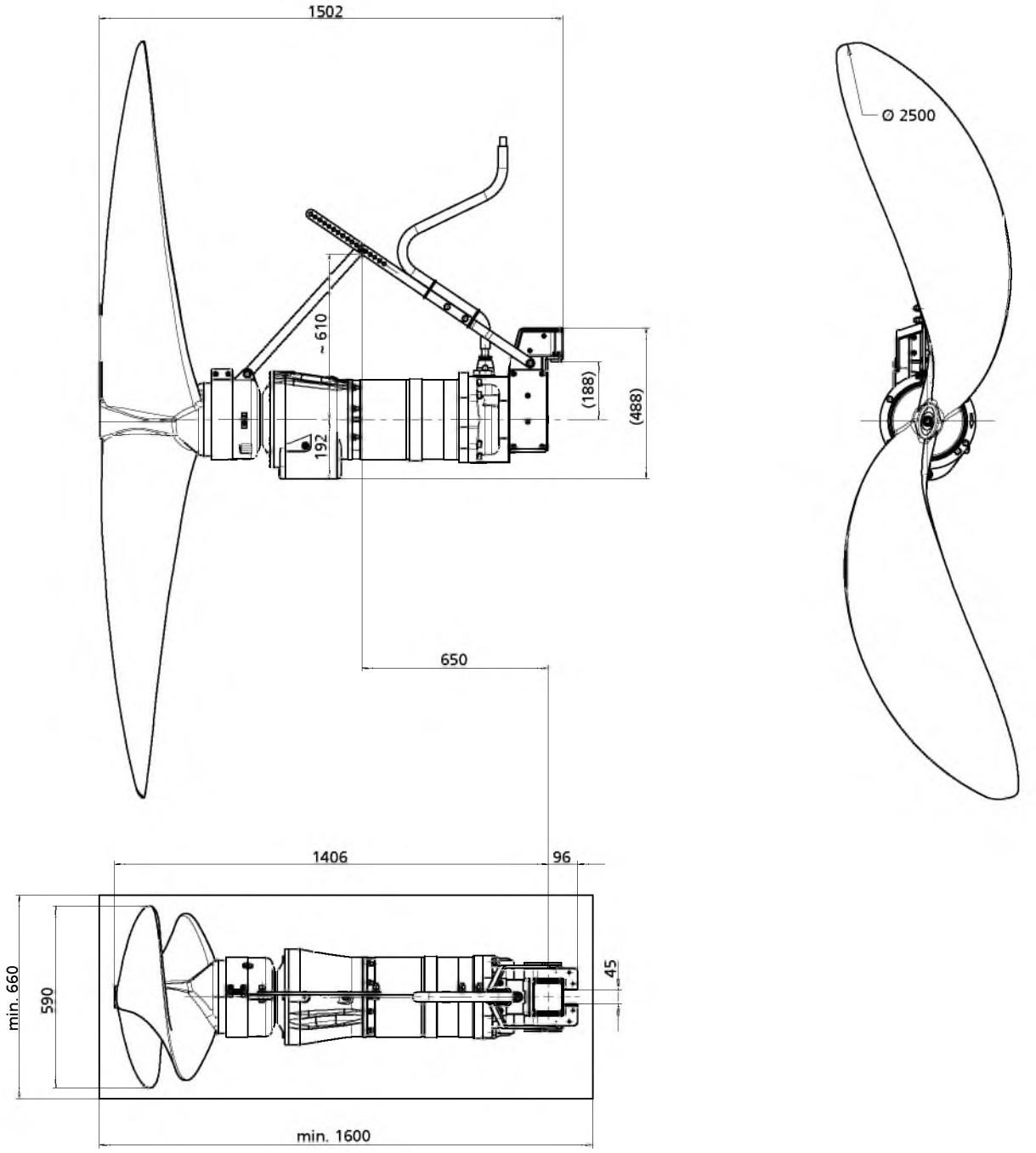


Minimum dimensions of access opening



Amaprop 2500

Dimensions [mm]

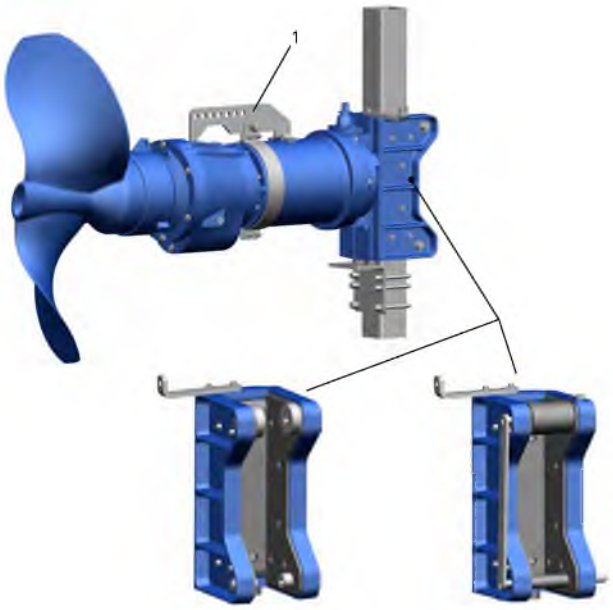


Scope of supply

Depending on the model, the following items are included in the scope of supply:

- Submersible mixer, complete with lifting bail or supporting strap and power cable
- Guide bracket
- Gearboxes
- Two shackles (for lifting tackle and cable support)
- Cable support for properly routing the power cables
- Separate name plate

Amaprop 1000 and 1380:



Amaprop 1000 with accessories set 22 and with accessories of other makes for gas-tight tanks

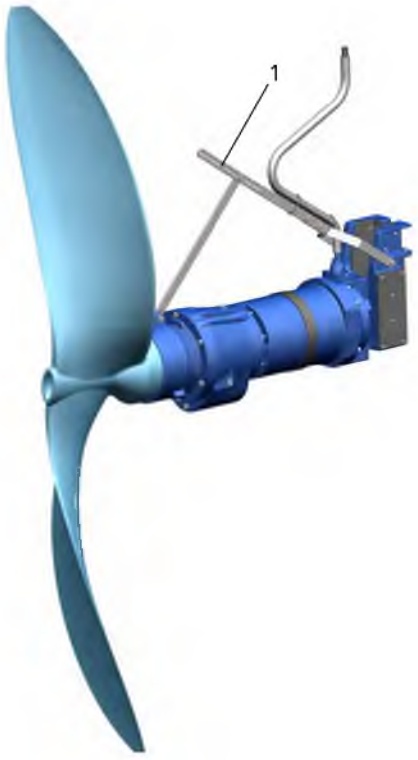
1	Supporting strap
2.1	Guide bracket with individual rollers (for accessories set 22 and for operation with mixer suspended from lifting equipment, with guide rail narrowing upwards. The guide bracket is mounted to the guide rail from the top; the rollers do not need to be removed/ reassembled.)
2.2	Guide bracket (for operation with mixer suspended from lifting equipment. The guide bracket can be mounted to the guide rail from the side; the rollers need to be removed/reassembled.)

For Amaprop 1000 and 1380 guide brackets for guide rails of 100 × 150 mm and 150 × 150 mm are available as an option (surcharge, delivery time and dimensions on request). Selection of the guide bracket is based on the existing installation parts.

Guide bracket for guide rail 100 × 150 mm

Guide bracket for guide rail 150 × 150 mm

Amaprop 2500:



Amaprop 2500

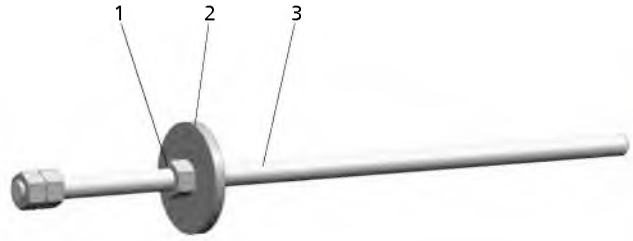
1	Lifting bail

Accessories

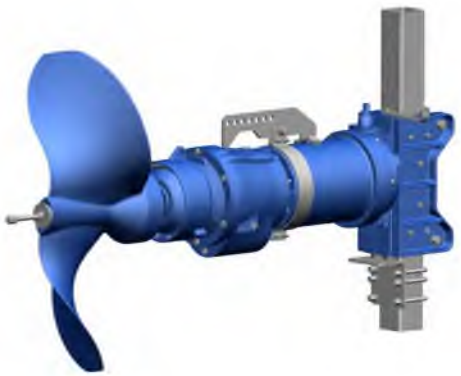
- Submersible mixer stand
- Forcing screw
- Propeller fitting tool
- Other accessories on request

Accessories

Propeller fitting tool



Propeller fitting tool



Propeller with propeller fitting tool

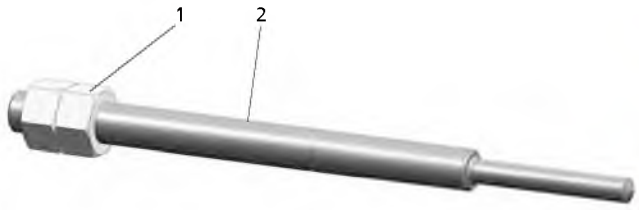
1	Nut
2	Disc
3	Fully threaded stud

The propeller fitting tool facilitates fitting the propeller on the submersible mixer shaft. The fully threaded stud (3) is screwed into the shaft, and the propeller and the disc (2) are placed on the shaft. The nut (1) is tightened up to the stop, pulling the propeller onto the shaft.

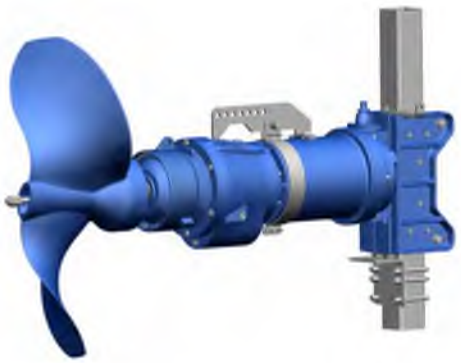
Accessory: propeller fitting tool

Description	Amaprop			Material	Mat. No.	[kg]
	1000	1380	2500			
Propeller fitting tool	✗	✗	✗	A4-70	01428379	1.22

Forcing screw



Forcing screw



Propeller with forcing screw

1	Nut
2	Fully threaded stud

The forcing screw facilitates dismantling and pulling the propeller off the submersible mixer shaft. The hexagon socket head cap screw with washer is removed and the fully threaded stud (2) is screwed into the propeller's forcing thread up to the stop using the nut (1), pulling the propeller smoothly off the shaft.

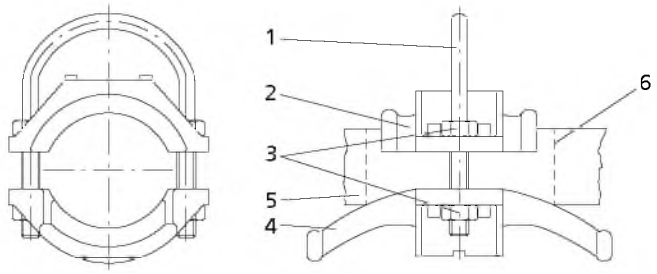
Accessory: propeller forcing screw

Description	Amaprop			Material	Mat. No.	[kg]
	1000	1380	2500			
Forcing screw	-	✗	-	A4-70	11306648	0.77
Forcing screw	✗	-	✗	A4-70	11306649	1.05

Cable support/carabine hook/strain relief device

Cable support

The cable support is used for supporting the power cable at the lifting rope or tank edge (one included in standard scope of supply; additional or spare cable supports available).



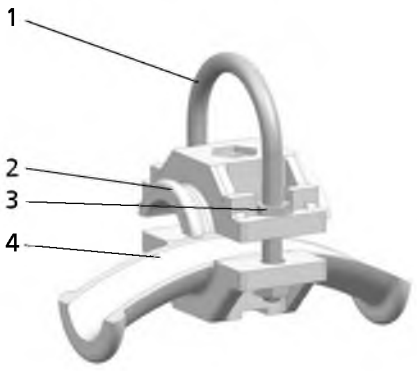
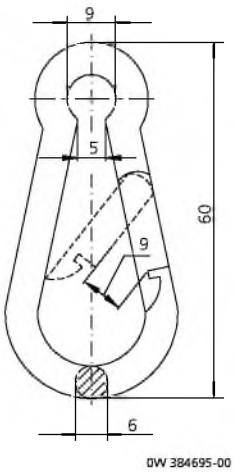


Illustration of cable support

1	U-bolt
2	Moulded part made of polypropylene
3	Hexagon nut made of A4
4	Moulded part made of polypropylene
5	Power cable with defined diameter[10)]
6	Rubber pad

For power cable diameters ≤ 17 mm a rubber pad is inserted to make sure the cable is clamped properly.

Carabine hook



Dimensions of carabine hook [mm]

Load-carrying capacity = 150 kg

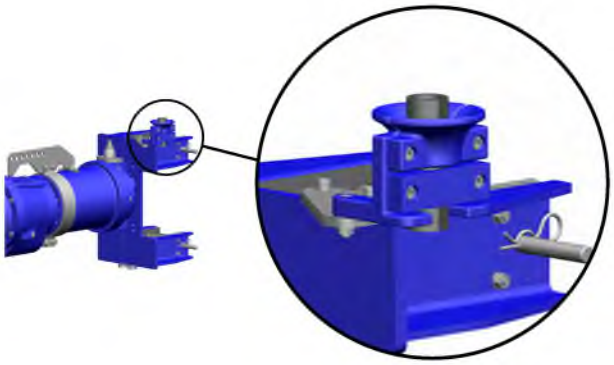
10) Refer to the power cable data given in the motor catalogue.

Overview of cable supports/carabine hooks

Description	Amaprop			Suitable for motor				Material	Mat. No.	[kg]
	1000	1380	2500	6 4	11 4	16 4	23 4			
Cable support, incl. carabine hooks	✘	-	-	✘[11)]	-	-	-	Cable support: plastic / A4, carabine hook: A4	19555523	0.09
Cable support, incl. carabine hooks	-	✘	-	✘[11)]	✘[11)]	✘[11)]	✘[11)]	Cable support: plastic / A4, carabine hook: A4	19555523	0.09
Cable support, incl. carabine hooks	-	-	✘	-	✘[11)]	✘[11)]	✘[11)]	Cable support: plastic / A4, carabine hook: A4	19555523	0.09

Strain relief device

To relieve the strain of the power cable on Amaprop 1000 and 1380 a customer-specific strain relief device can be fitted as an option. Depending on the system, various strain relief devices are offered for the power cable. As an option, a KSB strain relief device can be fitted to the fastening points of the spacer.



Amaprop 1000 with guide bracket for guide rail 150 × 150 mm and fitted strain relief device for the power cable

Accessory: strain relief device for the power cable

Description	Amaprop			Material	Mat. No.	[kg]
	1000	1380	2500			
Strain relief device	✘	✘	-	EN-GJL-250	01608408	3.6

Lifting equipment

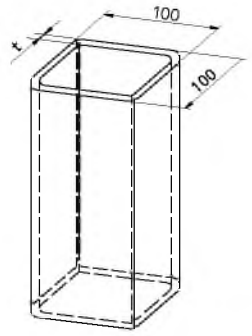
- See type series booklet "KSB Lifting Equipment" 1596.5

11) Diameter of power cable: Ø = 17-25 mm

Guide rails

The guide rail length required depends on the fluid level. Guide rails are supplied in standard lengths of 3 m or 6 m. Free guide rail ends should not protrude more than 0.5 m above the fluid surface. If the guide rail is to be fastened to the roofing structure, the guide rail length must be selected accordingly. If necessary, shorten the guide rails at the site.

For larger installation depths, the guide rails must be extended by adding guide rail extensions (3 m or 6 m). Welding and subsequent treatment must be performed at the site in accordance with the relevant regulations. To allow smooth lifting and lowering of the submersible mixers, the weld seam at the outside of the guide rail must be ground down to a max. projection of 0.5 mm.



t = 5 mm

UG 1145303

Square guide rail to DIN EN 10219-2

Amaprop 1000 and 1380

Overview of guide rails for Amaprop 1000/1380[12)]

Description	Length [m]	Material	Mat. No.	[kg]
Guide rail 100 x 100 x 5 mm	3,0	1.4301	11304598	43.2
Guide rail 100 x 100 x 5 mm	3,0	1.4571	11304599	43.2
Guide rail 100 x 100 x 5 mm	6,0	1.4301	11304600	86.4
Guide rail 100 x 100 x 5 mm	6,0	1.4571	11304601	86.4

Amaprop 2500

Overview of guide rails and installation types for Amaprop 2500

Guide rail		Free-standing	With upper holder
Length [m]	Cross-section		
< 7	100 × 100 × 5	✗	✗[13)]
< 9	100 × 100 × 5	-	✗
> 9	100 × 100 × 5	-	✗

12) In biogas digester: 1.4571 as standard; in mixing tank and digestate storage tank: 1.4301 as standard / 1.4571 on option

13) Only if guide rail is not fastened to roofing structure

Overview of guide rails, high and low position, for Amaprop 2500

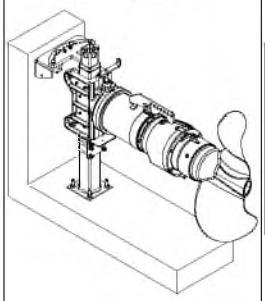
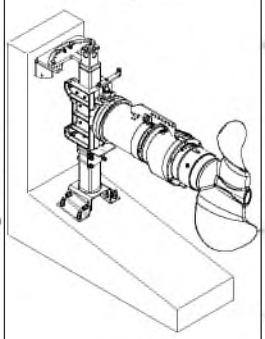
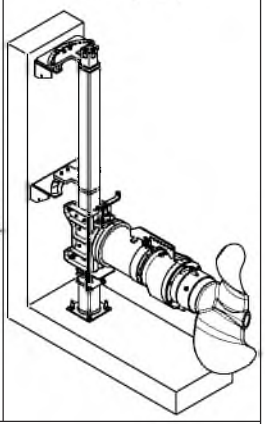
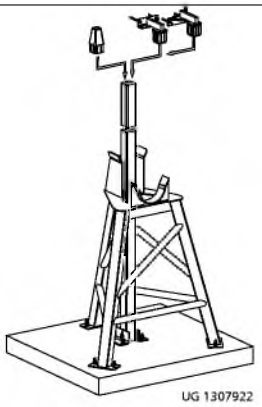
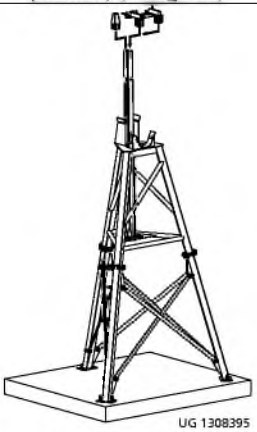
Description	Length [m]	Material	Mat. No.	[kg]
Guide rail 100 x 100 x 5 mm[14)]	3,0	1.4571	11304599	43.2
Guide rail 100 x 100 x 5 mm[14)]	3,0	1.4571	11304601	86.4

14) If guide rail cannot be fastened to roofing structure: always combined with insert sleeve

Installation accessories

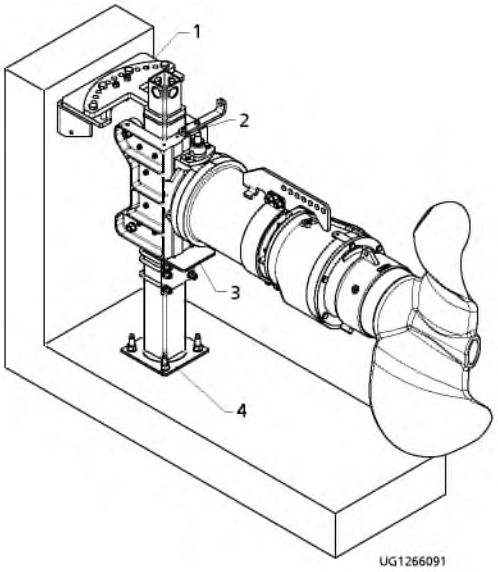
Overview of installation accessories

Overview of installation accessories for Amaprop 1000/1380 and Amaprop 2500

Accessories	Installation example		
Amaprop 1000 and 1380			
Accessories set 22	Mounting on tank wall and horizontal tank floor (0 - 0.5°) (⇨ Page 22) 	Mounting on tank wall and sloping tank floor (0.5°- 10°) (⇨ Page 24) 	Middle support for guide rail 100 x 100 x 5, for large installation depths (⇨ Page 26) 
Amaprop 2500			
Low-position submersible mixer stand	 Free-standing installation on horizontal tank floor in biogas digesters (near-floor position) (⇨ Page 28)		
High-position submersible mixer stand	 Free-standing installation on horizontal tank floor in biogas digesters (near-surface position) (⇨ Page 28)		

Accessories set 22 - Amaprop 1000 and 1380

For mounting at the top of the tank wall and on a horizontal tank floor (0° - 0.5°), level-adjustable and with horizontal swivelling option.



Installation example: Amaprop 1000 and 1380 mounted on tank wall and horizontal tank floor

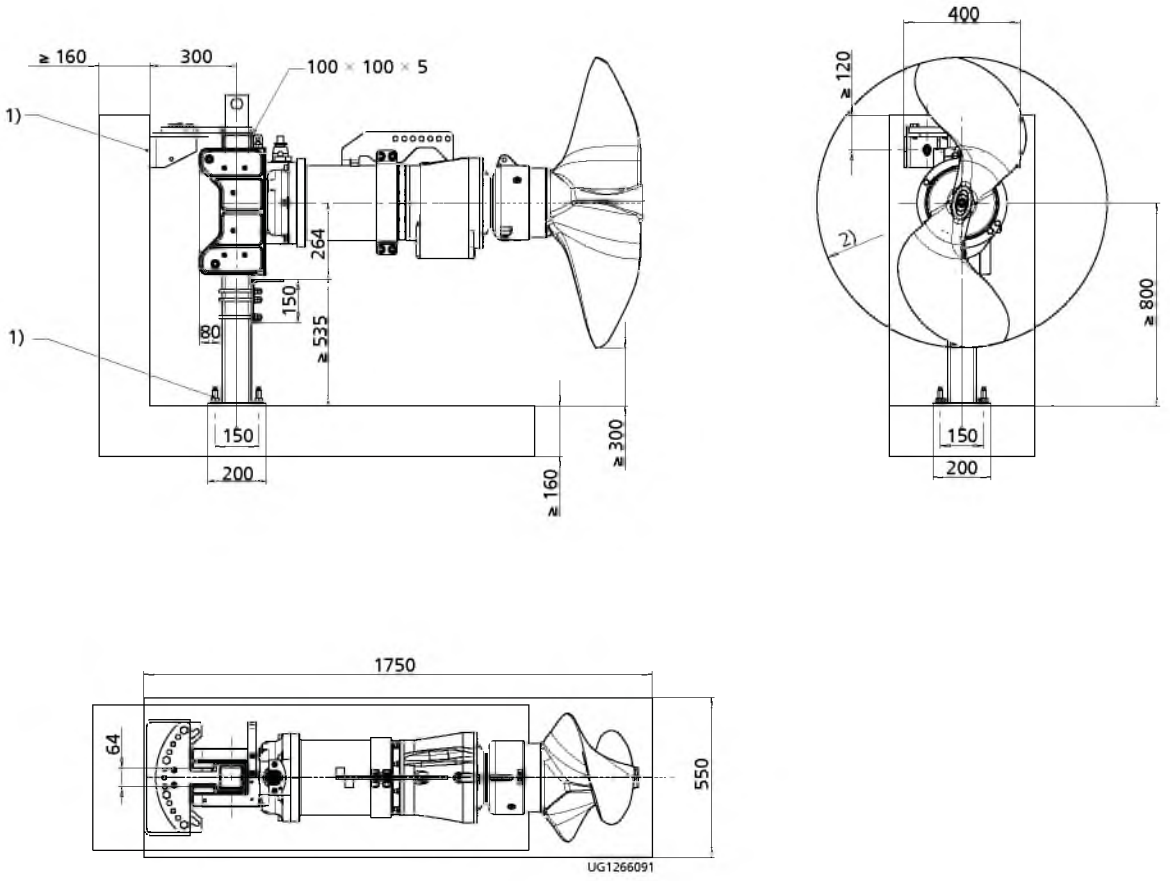
1	Upper holder
2	Guide rail
3	Retaining bracket
4	Lower holder

Accessories set 22 - Mounting on tank wall and horizontal tank floor

Description	Material	Mat. No.	[kg]
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	1.4301	01313458	23.23
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	1.4571	01313459	23.23
Guide rail	(⇨ Page 19)		
Retaining bracket for guide rail 100 x 100 x 5 mm	1.4301	01129810	3.5
Retaining bracket for guide rail 100 x 100 x 5 mm	1.4571	19202370	3.5
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	1.4301	01118892	5.68
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	1.4571	01118903	5.68

General arrangement drawing of accessories set 22 - Amaprop 1000 and 1380

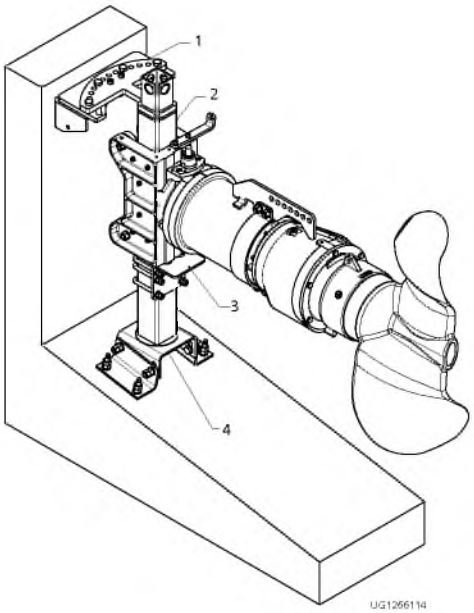
For mounting at the top of the tank wall and on a horizontal tank floor (0° - 0.5°), level-adjustable and with horizontal swivelling option.



Installation of accessories set 22 - Amaprop 1000 and 1380

1)	Hole diameter = 18 mm, hole depth = 125 mm, max. tightening torque = 60 Nm
2)	Amaprop 1000: Ø = 1000 mm, Amaprop 1380: Ø = 1380 mm

For mounting on tank wall and sloping tank floor (0.5° - 10°), level-adjustable and with horizontal swivelling option



Installation example: Amaprop 1000 and 1380 mounted on sloping tank floor

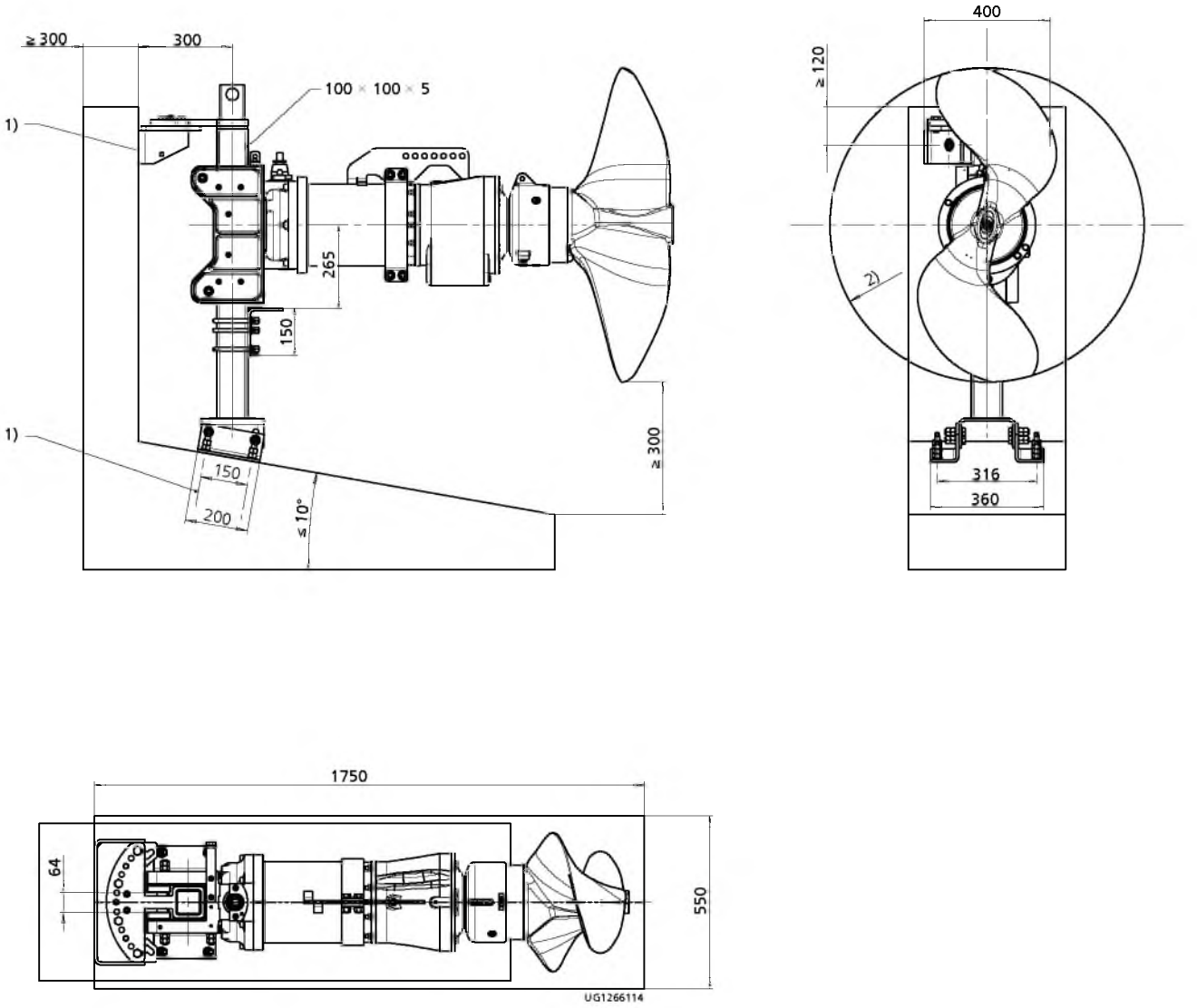
1	Upper holder
2	Guide rail
3	Retaining bracket
4	Lower holder

Accessories set 22 - Mounting on tank wall and sloping tank floor

Description	Material	Mat. No.	[kg]
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	1.4301	01313458	23.23
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	1.4571	01313459	23.23
Guide rail	(⇨ Page 19)		
Retaining bracket for guide rail 100 x 100 x 5 mm	1.4301	01129810	3.5
Retaining bracket for guide rail 100 x 100 x 5 mm	1.4571	19202370	3.5
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	1.4301	01118906	11.92
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	1.4571	01118907	11.92

General arrangement drawing of accessories set 22 - Amaprop 1000 and 1380

For mounting at the top of the tank wall and on a sloping tank floor (0.5° - 10°), level-adjustable and with horizontal swivelling option.

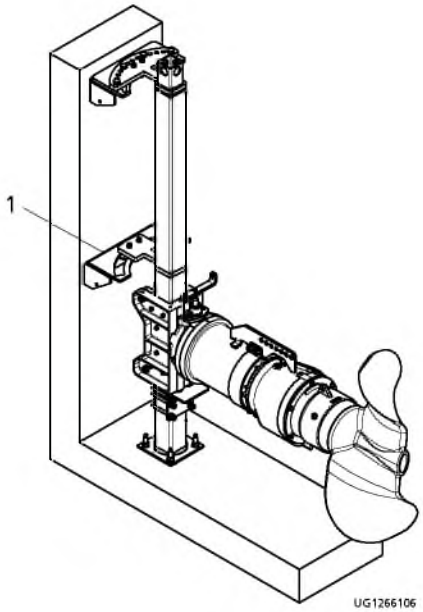


Installation of accessories set 22 - Amaprop 1000 and 1380

1)	Hole diameter = 18 mm, hole depth = 125 mm, max. tightening torque = 60 Nm
2)	Amaprop 1000: Ø 1000 mm, Amaprop 1380: Ø 1380 mm

Middle support

Middle support for guide rail 100 x 100 x 5 mm, for large installation depths



Installation example: Amaprop 1000 and 1380 mounted on tank edge and horizontal tank floor

1	Middle support

Amaprop 1000, required middle support; guide rail length 6 m

Size	T [°C]	Middle support required
J 166-1000/114URG/YRG	45	-
J 175-1000/164URG/YRG	45	-
J 184-1000/164URG/YRG	45	-
J 192-1000/164URG/YRG	45	-
J 185-1000/164URG/YRG	45	-
J 208-1000/234URG/YRG	45	✗
J 166-1000/164WRG/ZRG	60	-
J 174-1000/164WRG/ZRG	60	-
J 181-1000/234WRG/ZRG	60	-
J 184-1000/234WRG/ZRG	60	-
J 189-1000/234WRG/ZRG	60	-

Amaprop 1000, required middle support; guide rail length 8 m

Size	T [°C]	Middle support required
J 166-1000/114URG/YRG	45	-
J 175-1000/164URG/YRG	45	-
J 184-1000/164URG/YRG	45	✗
J 192-1000/164URG/YRG	45	✗
J 185-1000/164URG/YRG	45	✗
J 208-1000/234URG/YRG	45	✗
J 166-1000/164WRG/ZRG	60	-
J 174-1000/164WRG/ZRG	60	-
J 181-1000/234WRG/ZRG	60	✗
J 184-1000/234WRG/ZRG	60	✗
J 189-1000/234WRG/ZRG	60	✗

Amaprop 1380, required middle support; guide rail length 6 m

Size	T [°C]	Middle support required
J 88-1380/64URG/YRG	45	-
J 99-1380/114URG/YRG	45	-
J 105-1380/114URG/YRG	45	-
J 114-1380/164URG/YRG	45	-
J 88-1380/64WRG/ZRG	60	-
J 99-1380/164WRG/ZRG	60	-
J 105-1380/164WRG/ZRG	60	-
J 114-1380/234WRG/ZRG	60	-

Amaprop 1380, required middle support; guide rail length 8 m

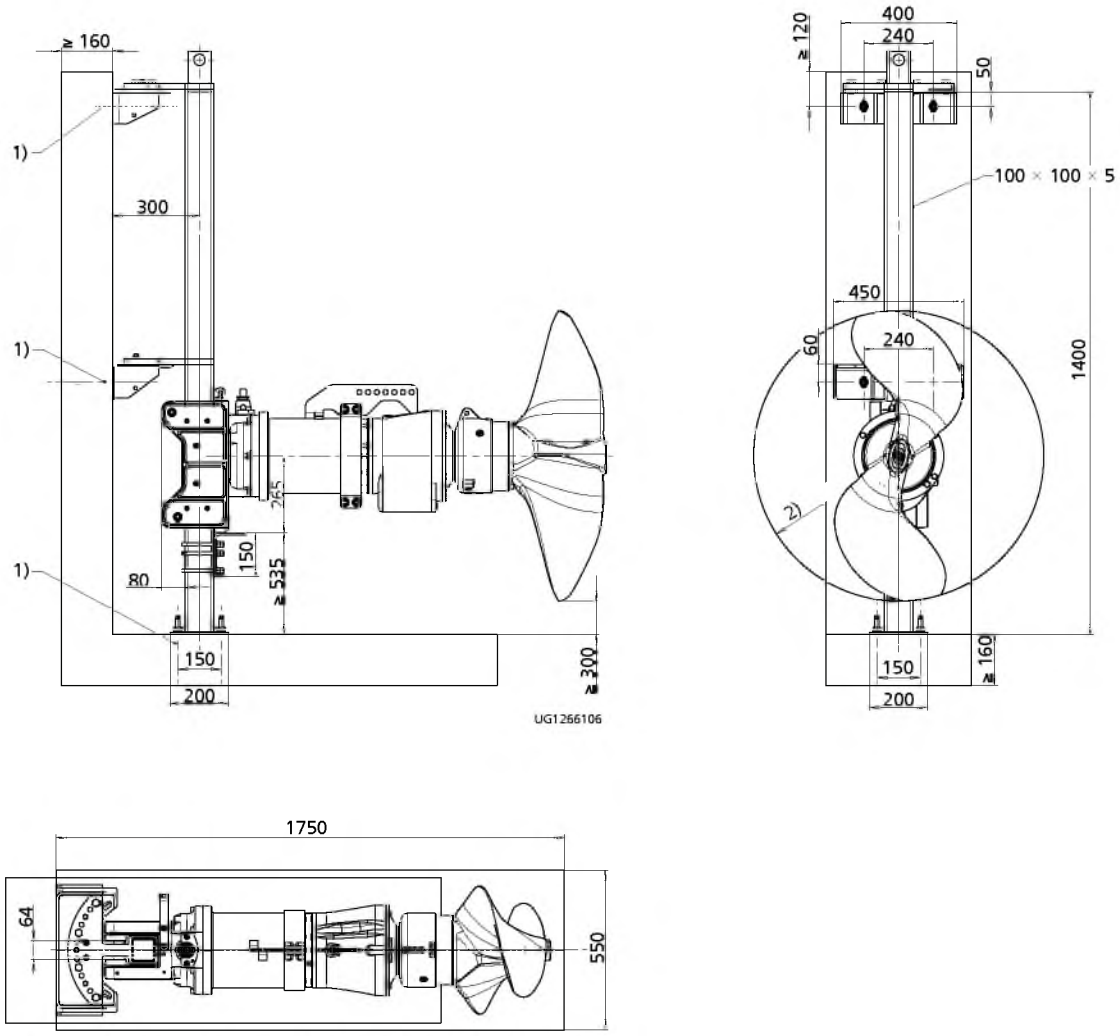
Size	T [°C]	Middle support required
J 88-1380/64URG/YRG	45	-
J 99-1380/114URG/YRG	45	-
J 105-1380/114URG/YRG	45	✗
J 114-1380/164URG/YRG	45	✗
J 88-1380/64WRG/ZRG	60	-
J 99-1380/164WRG/ZRG	60	-
J 105-1380/164WRG/ZRG	60	✗
J 114-1380/234WRG/ZRG	60	✗

Standard accessories set 22 - Middle support for guide rail 100 x 100 x 5 mm, for large installation depths

Description	Material	Mat. No.	[kg]
Middle support for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	1.4301	01313462	19.26
Middle support for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	1.4571	01313463	19.26

General arrangement drawing of accessories set 22 - Amaprop 1000 and 1380

For mounting at the top of the tank wall and on a horizontal tank floor (0° - 0.5°), level-adjustable and with horizontal swivelling option.



Installation of accessories set 22 - Amaprop 1000 and 1380

1)	Hole diameter = 18 mm, hole depth = 125 mm, max. tightening torque = 60 Nm
2)	Amaprop 1000: Ø = 1000 mm, Amaprop 1380: Ø = 1380 mm

Standard accessories - low-position and high-position biogas stands

Design details

Design

- Stand (tripod)
- Square guide rail
- Retaining bracket

Optional:

- 3 leg extensions (for high position only)
- 6 diagonal struts (for high position only)
- Square guide rail extension

Fastening

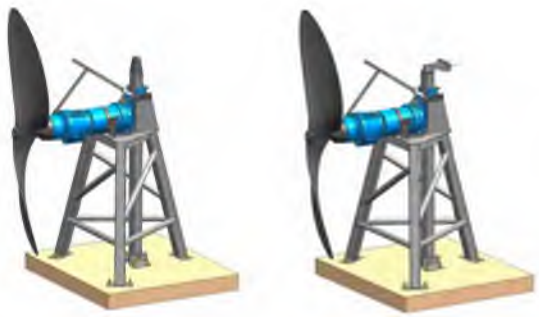
- The submersible mixer stand is fastened on the tank floor with chemical anchors.

Guide rail

- Cross-section: 100 x 100 mm
- Wall thickness: 3 or 5 mm (depending on guide rail length and fastening of upper guide rail end)
- Material 1.4571

Installation types

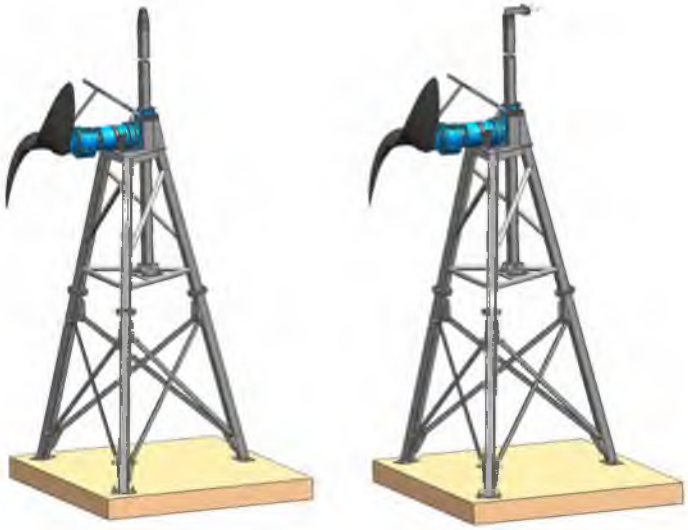
- Free-standing, without upper holder
- With upper holder mounted on the tank wall or roofing structure



Submersible mixer stand
Low position

Free-standing, with insert sleeve

Installation with upper holder



Submersible mixer stand
High position

Free-standing, with insert sleeve

Installation with upper holder

Scope of supply

Depending on the model, the following items are included in the scope of supply:

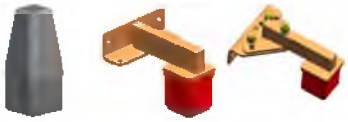
Submersible mixer stand - Low position

- Stand (tripod)

- Square guide rail/Square guide rail extension, if necessary

- Retaining bracket for square guide rail (2 pcs.)

- Insert sleeve or upper holder (fixed or with swivelling option)



- Chemical anchor (6 pcs.)

- Installation accessories

Submersible mixer stand - High position

- Stand (tripod)

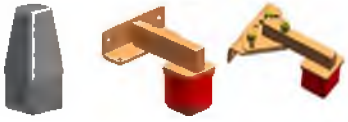
- Square guide rail/Square guide rail extension, if necessary

- Retaining bracket for square guide rail (2 pcs.)

- Leg extensions (3 pcs.)

- Diagonal strut (6 pcs.)

- Insert sleeve or upper holder (fixed or with swivelling option)



- Chemical anchor (10 pcs.)

- Installation accessories

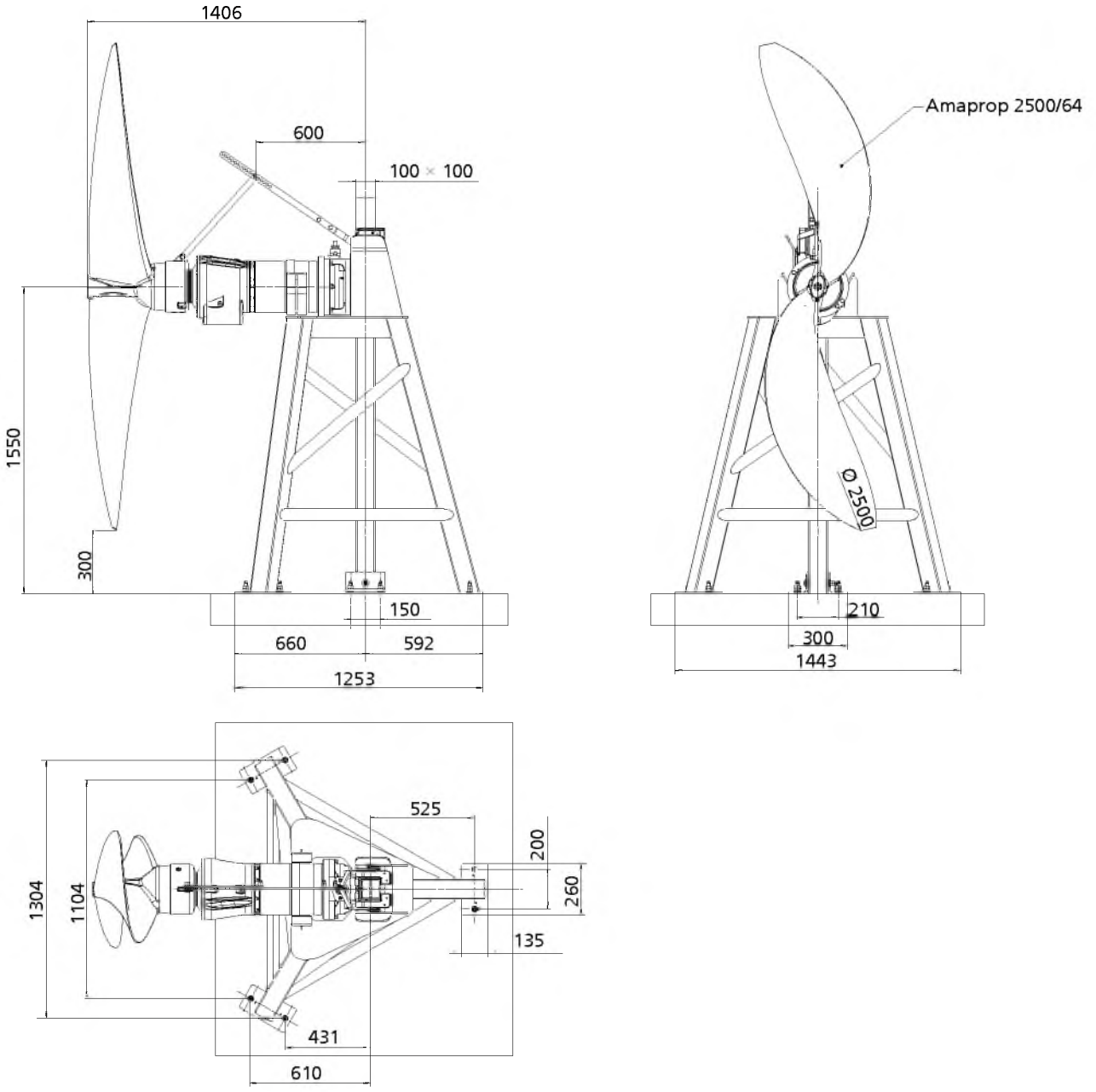
Standard accessories: submersible mixer stand for Amaprop 2500

Standard accessories: submersible mixer stand for Amaprop 2500

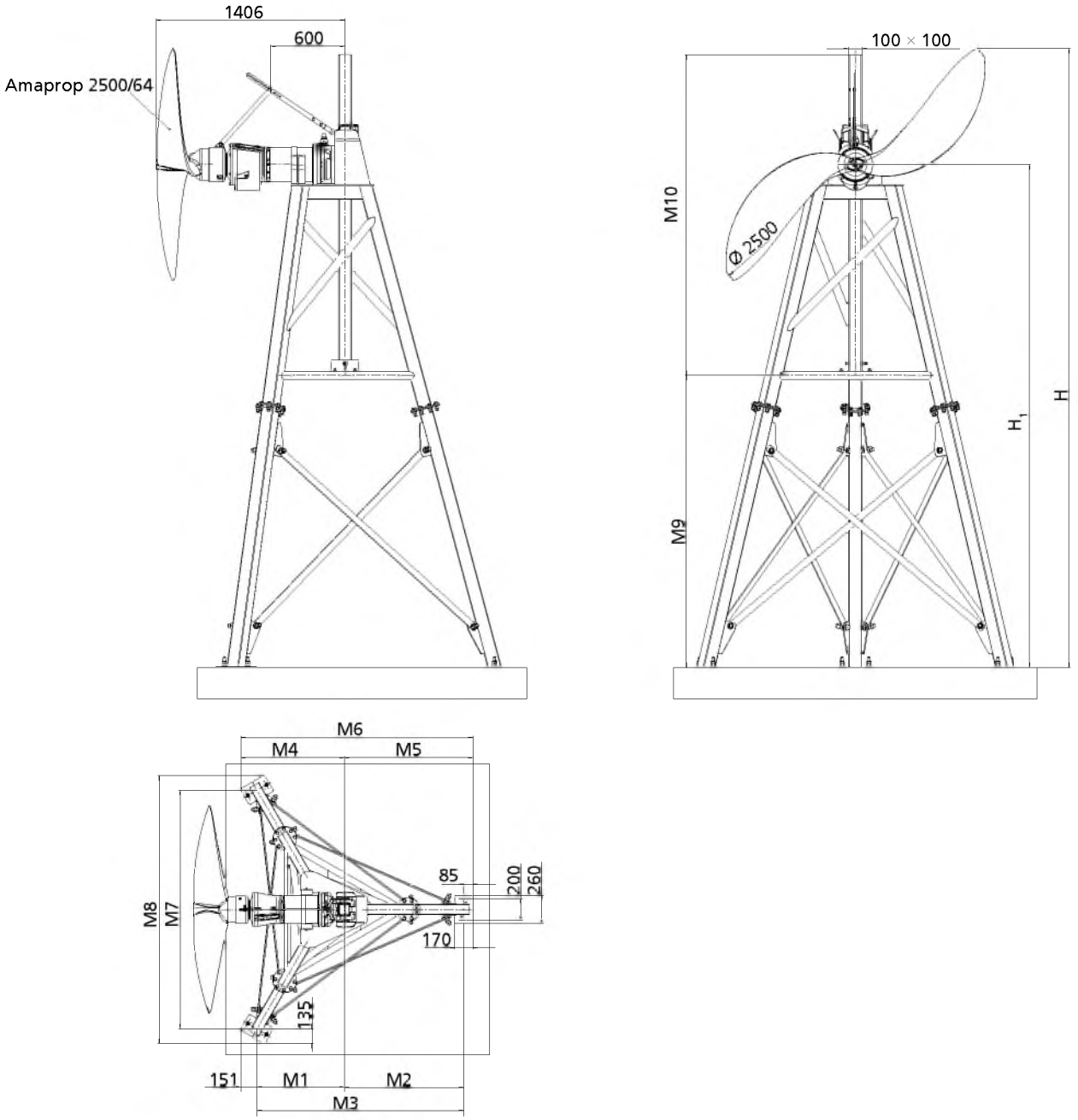
Description	Mat. No.	Material	[kg]
Submersible mixer stand for low-position installation			
Submersible mixer stand (incl. installation accessories), mixer shaft centreline height: 1550 mm above tank floor	01205324	1.4301	177
Submersible mixer stand for high-position installation			
Tripod (incl. installation accessories), upper part of submersible mixer stand, identical for all shaft centreline heights	01213034	1.4301	217
Leg extensions (3 pcs.), shaft centreline height: 3.0 m to 4.5 m	01213223	1.4301	18.9 to 32.9
Leg extensions (3 pcs.), shaft centreline height: 4.5 m	01200190	1.4301	48,7
Leg extensions (3 pcs.), shaft centreline height: 8.0 m	01200190	1.4301	101,4
Diagonal struts (6 pcs.), shaft centreline height up to 3 m[15)]	01201525	1.4301	6.4
Diagonal struts (6 pcs.), shaft centreline height: 3.01 m to 3.50 m	01201526	1.4301	7.8
Diagonal struts (6 pcs.), shaft centreline height: 3.51 m to 4.00 m	01200192	1.4301	9.75
Diagonal struts (6 pcs.), shaft centreline height: 4.01 m to 4.50 m	01201543	1.4301	11.7
Diagonal struts (6 pcs.), shaft centreline height: 4.51 m to 5.00 m	01201544	1.4301	15.6
Diagonal struts (6 pcs.), shaft centreline height: 5.01 m to 5.50 m	01201546	1.4301	17.55
Diagonal struts (6 pcs.), shaft centreline height: 5.51 m to 6.00 m	01201557	1.4301	19.5
Diagonal struts (6 pcs.), shaft centreline height: 6.01 m to 6.50 m	01201558	1.4301	21.45
Diagonal struts (6 pcs.), shaft centreline height: 6.51 m to 7.00 m	01201559	1.4301	23.4
Upper holder			
Upper holder 90°, additional holder for supporting the top end of the guide rail 100 x 100 x 3 mm, incl. 2 chemical anchors	01189497	1.4571	7.35
Upper holder 45°/60°/75°, additional holder for supporting the top end of the guide rail 100 x 100 x 3 mm, incl. 2 chemical anchors	01189499	1.4571	8.15
Upper holder 90°, additional holder for supporting the top end of the guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	01108430	1.4571	7.35
Upper holder 45°/60°/75°, additional holder for supporting the top end of the guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	01108432	1.4571	8.15
Insert sleeve			
Insert sleeve for guide rail 100 × 100 × 5 mm	11306485	PP	0.8

15) No diagonal struts required for shaft centreline heights of 2.2 m and 2.5 m

General arrangement drawing



Amaprop biogas mixer stand - Low position



Amaprop biogas mixer stand - High position

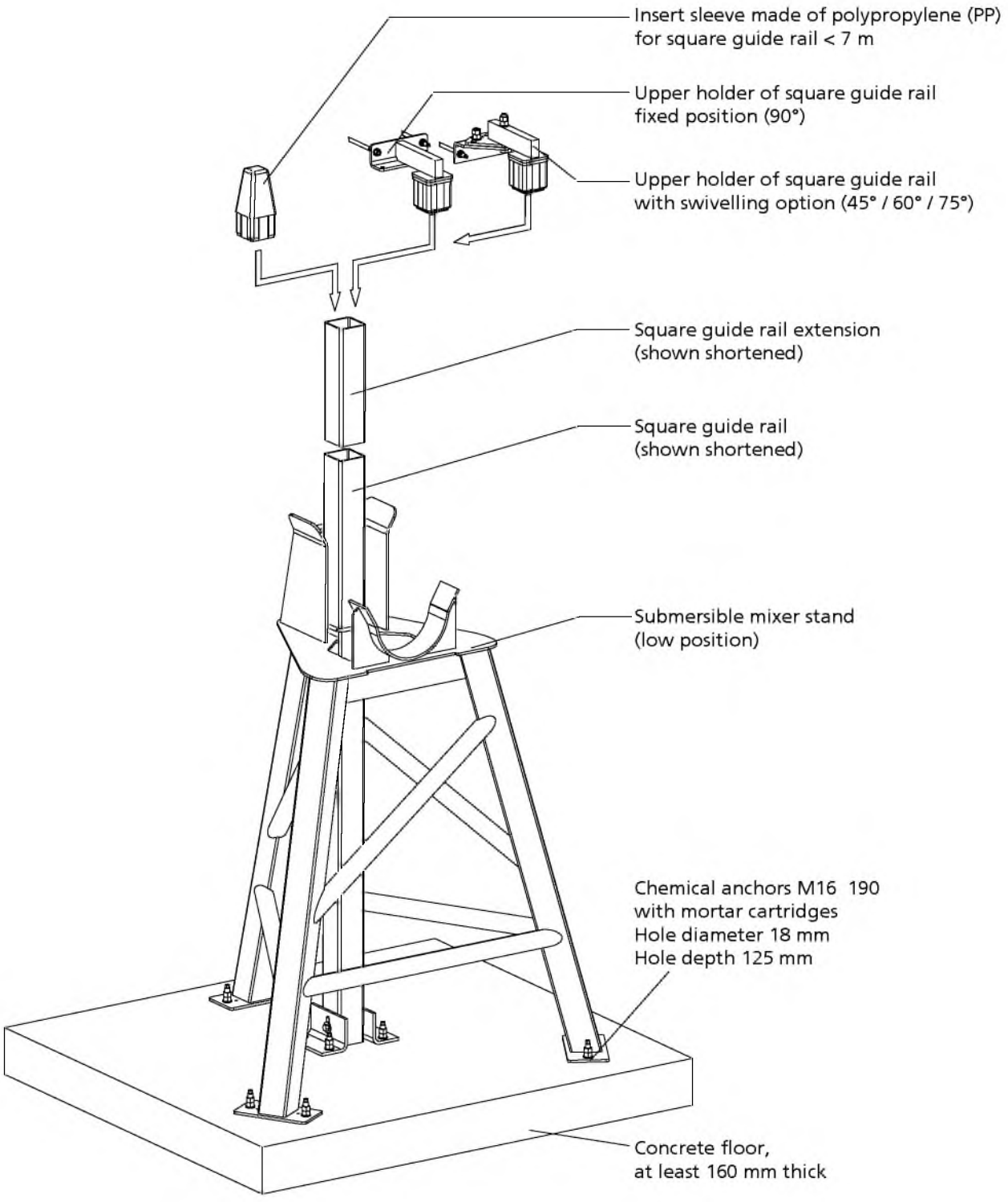
Amaprop biogas mixer stand - High position

H	H_1	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
3450	2200	604	696	1300	755	781	1536	1500	1770	635	3615
3750	2500	644	777	1420	795	862	1656	1640	1910	935	3615
4250	3000	711	911	1621	862	996	1857	1872	2142	1435	3615
4350	3100	724	937	1662	875	1022	1898	1918	2188	1535	3615
4450	3200	738	964	1702	889	1049	1938	1965	2235	1635	3615
4550	3300	751	991	1742	902	1076	1978	2011	2281	1735	3615
4650	3400	764	1018	1782	915	1103	2018	2057	2327	1835	3615
4750	3500	778	1045	1822	929	1130	2058	2104	2374	1935	3615
4850	3600	791	1071	1863	942	1156	2099	2150	2420	2035	3615
4950	3700	805	1098	1903	956	1183	2139	2197	2467	2135	3615

H	H_1	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
5000	3750	811	1112	1923	962	1197	2159	2220	2490	2185	3615
5050	3800	818	1125	1943	969	1210	2179	2243	2513	2235	3615
5150	3900	831	1152	1983	982	1237	2219	2289	2559	2335	3615
5250	4000	845	1179	2023	996	1264	2259	2336	2606	2435	3615
5350	4100	858	1205	2064	1009	1290	2300	2382	2652	2535	3615
5450	4200	872	1232	2104	1023	1317	2340	2429	2699	2635	3615
5550	4300	885	1259	2144	1036	1344	2380	2475	2745	2735	3615
5650	4400	898	1286	2184	1049	1371	2420	2521	2791	2835	3615
5750	4500	912	1313	2224	1063	1398	2460	2568	2838	2935	3615
5850	4600	925	1339	2265	1076	1424	2501	2614	2884	3035	3615
5950	4700	939	1366	2305	1090	1451	2541	2661	2931	3135	3615
6050	4800	952	1393	2345	1103	1478	2581	2707	2977	3235	3615
6150	4900	965	1420	2385	1116	1505	2621	2753	3023	3335	3615
6250	5000	979	1447	2425	1130	1532	2661	2800	3070	3435	3615
6350	5100	992	1473	2465	1143	1558	2701	2846	3116	3535	3615
6450	5200	1006	1500	2506	1157	1585	2742	2893	3163	3635	3615
6550	5300	1019	1572	2546	1170	1612	2782	2939	3209	3735	3615
6650	5400	1032	1554	2586	1183	1639	2822	2986	3256	3835	3615
6750	5500	1046	1580	2626	1197	1665	2862	3032	3302	3935	3615
6850	5600	1059	1607	2666	1210	1692	2902	3078	3348	4035	3615
6950	5700	1073	1634	2707	1224	1719	2943	3125	3395	4135	3615
7050	5800	1086	1661	2747	1237	1746	2983	3171	3441	4235	3615
7150	5900	1099	1688	2787	1250	1773	3023	3218	3488	4335	3615
7250	6000	1113	1714	2827	1264	1799	3063	3264	3534	4435	3615
7350	6100	1126	1741	2867	1277	1826	3103	3310	3580	4535	3615
7450	6200	1140	1768	2908	1291	1853	3144	3357	3627	4635	3615
7550	6300	1153	1795	2948	1304	1880	3184	3403	3673	4735	3615
7650	6400	1166	1822	2988	1317	1907	3224	3450	3720	4835	3615
7750	6500	1180	1848	3028	1331	1933	3264	3496	3766	4935	3615
7850	6600	1193	1875	3068	1344	1960	3304	3542	3812	5035	3615
7950	6700	1207	1902	3109	1358	1987	3345	3589	3859	5135	3615
8050	6800	1220	1929	3149	1371	2014	3385	3635	3905	5235	3615
8150	6900	1233	1956	3189	1384	2041	3425	3682	3952	5335	3615
8250	7000	1247	1982	3229	1398	2067	3465	3728	3998	5435	3615

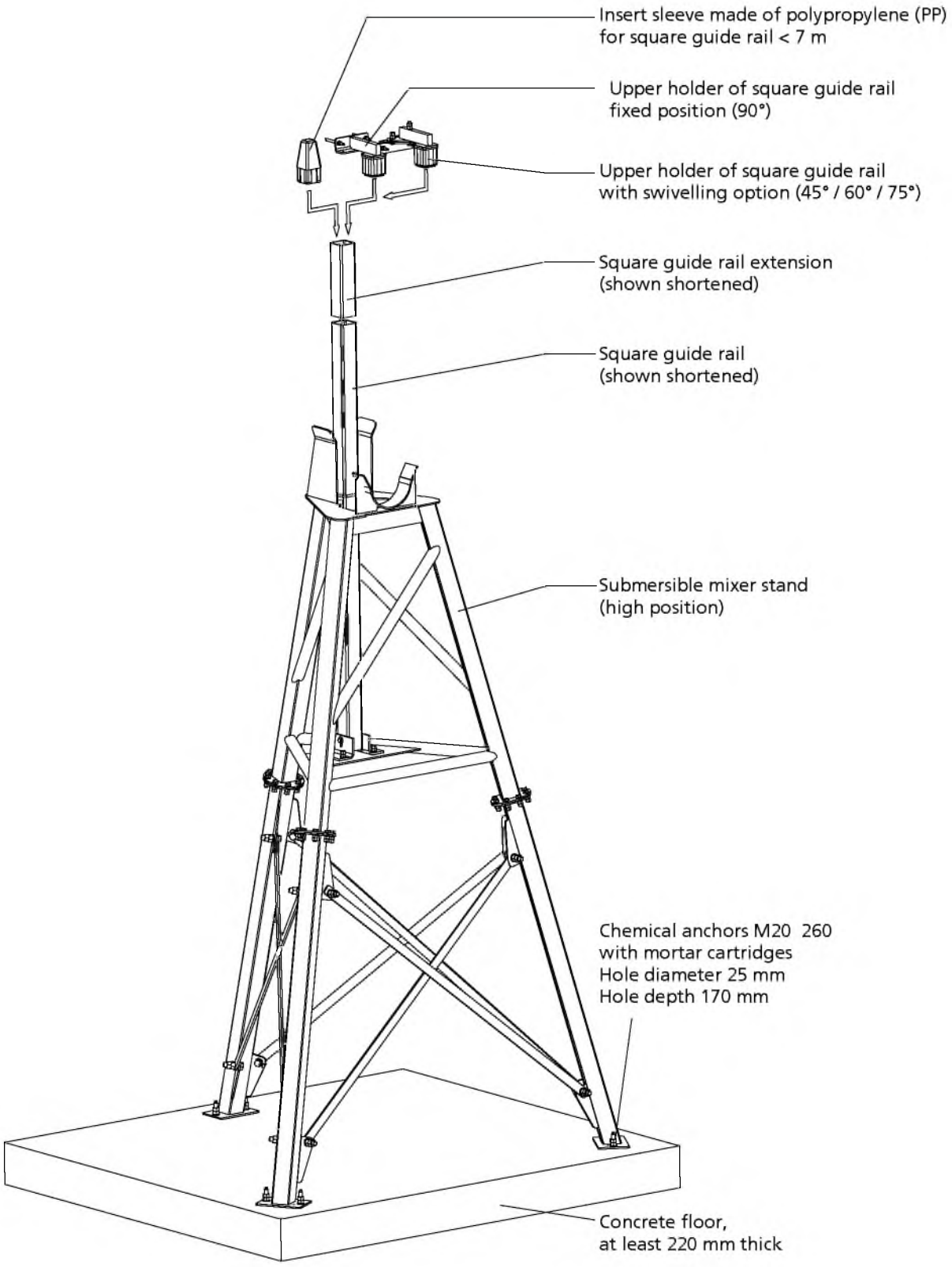
General assembly drawing showing individual components

Biogas mixer stand - Low position



Biogas mixer stand - Low position

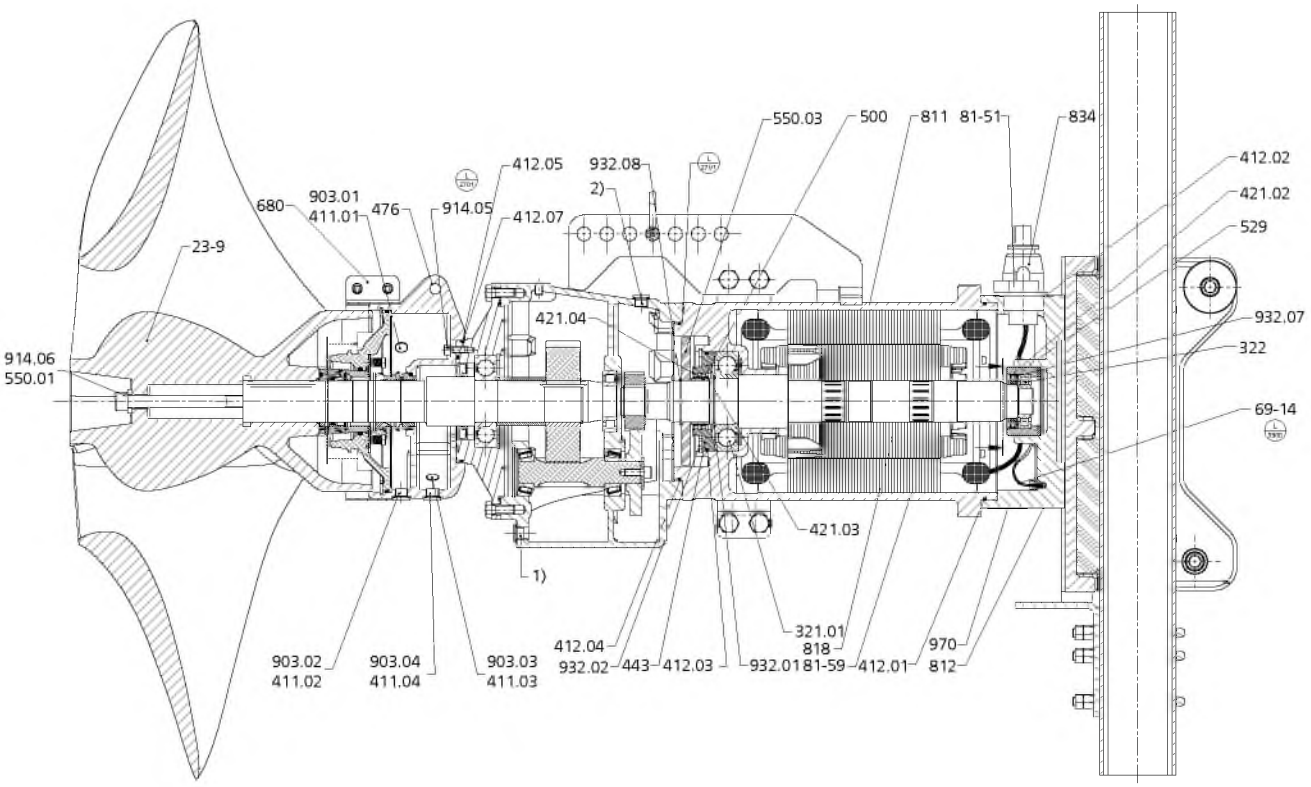
Biogas mixer stand - High position



Biogas mixer stand - High position

General assembly drawings with list of components

Amaprop J 1000



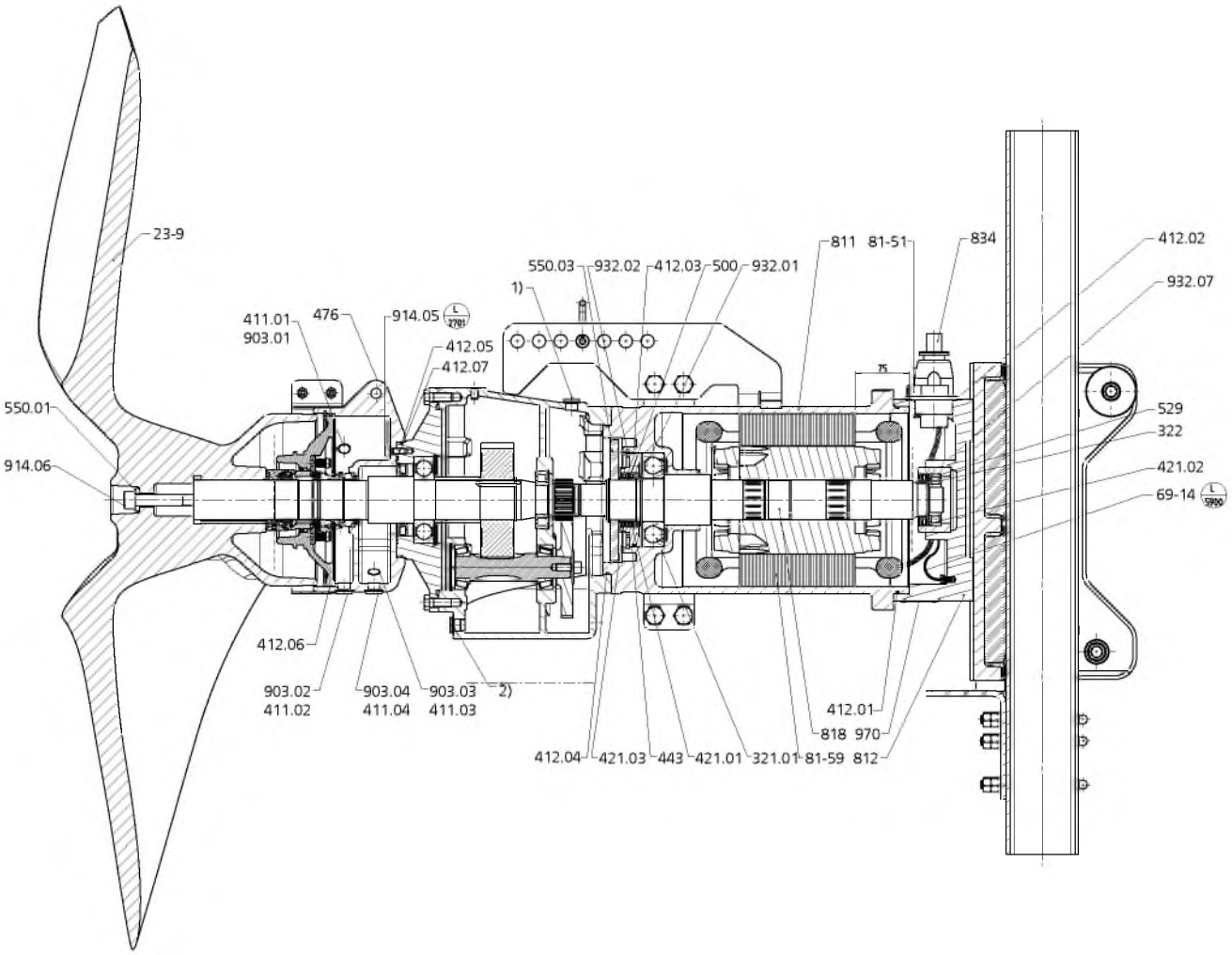
General assembly drawing of Amaprop J 1000

1)	Oil drain plug
2)	Oil filler plug

List of components

Part No.	Description	Part No.	Description
23-9	Axial propeller	680	Guard
321.01	Radial ball bearing	81-51	Shim
322	Radial roller bearing	81-59	Stator
411.01/.02/.03/.04	Joint ring	811	Motor housing
412.01/.03/.04/.05/.07	O-ring	812	Motor housing cover
421.01/.02/.03/.04	Lip seal	818	Rotor
443	Seal insert	834	Cable gland
476	Mating ring carrier	903.01/.02/.03/.04	Screw plug
500	Ring	914.05/.06	Hexagon socket head cap screw
529	Bearing sleeve	932.01/.02/.07/.08	Circlip
550.01/.03	Disc	970	Label/plate
69-14	Leakage monitor		

Amaprop J 1380



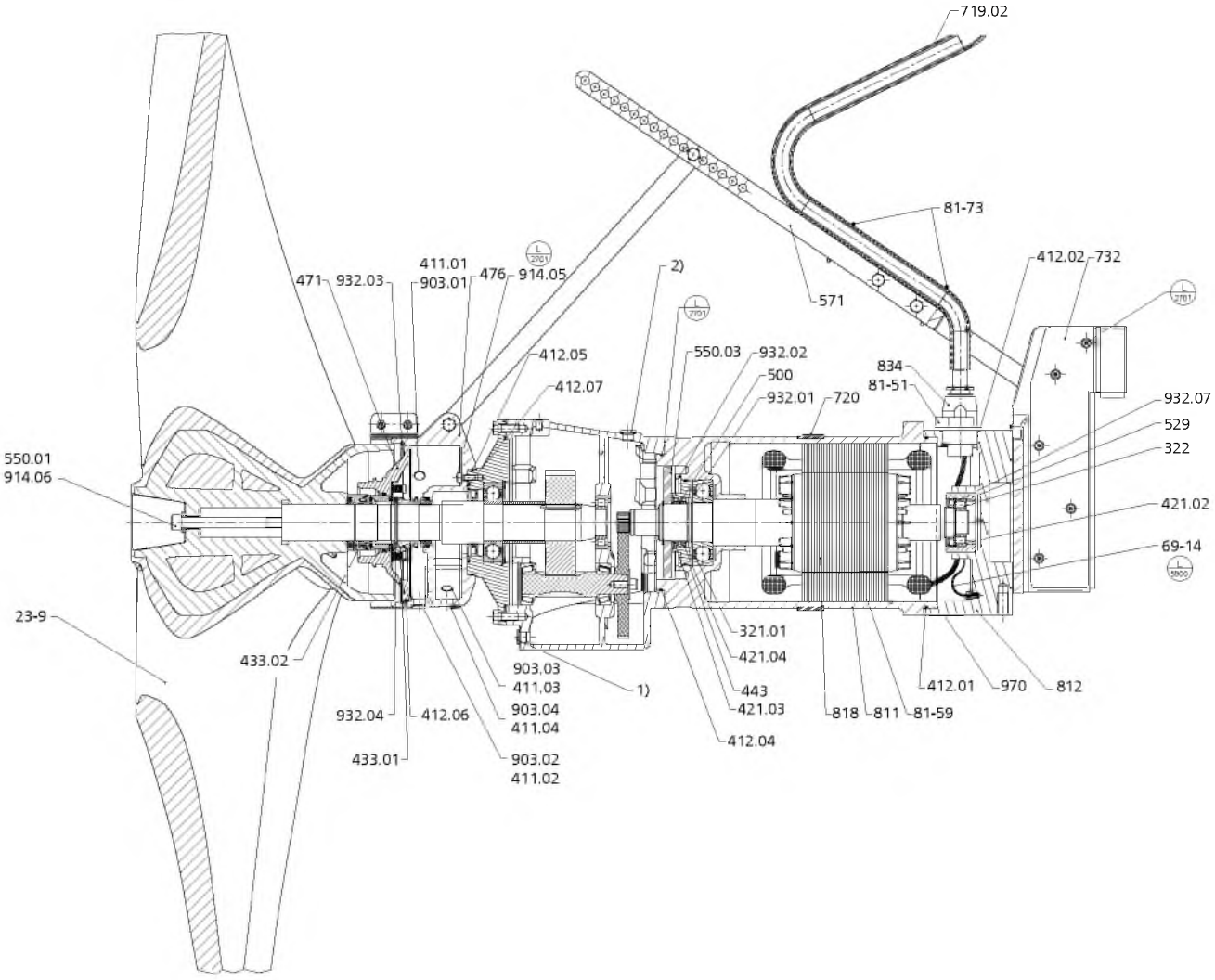
General assembly drawing of Amaprop J 1380

1)	Oil filler plug
2)	Oil drain plug

List of components

Part No.	Description	Part No.	Description
23-9	Axial propeller	69-14	Leakage monitor
321.01	Radial ball bearing	81-51	Clamping element
322	Radial roller bearing	81-59	Stator
411.01/.02/.03/.04	Joint ring	811	Motor housing
412.01/.02/.03/.04/.05/.06/.07	O-ring	812	Motor housing cover
421.02/.03/.04	Lip seal	818	Rotor
443	Seal insert	834	Cable gland
476	Mating ring carrier	903.01/.02/.03/.04	Screw plug
500	Ring	932.01/.02/.07	Circlip
529	Bearing sleeve	914.06	Hexagon socket head cap screw
550.01/.03	Disc	970	Label/plate

Amaprop K 2500



General assembly drawing of Amaprop K 2500

1)	Oil drain plug
2)	Oil filler plug

List of components

Part No.	Description	Part No.	Description
23-9	Axial propeller	69-14	Leakage monitor
321.01	Radial ball bearing	719.02	Sheathing
322	Radial roller bearing	720	Fitting
411.01/.02/.03/.04	Joint ring	732	Guide bracket
412.01/.02/.04/.05/.06/.07	O-ring	81-51	Shim
421.02/.03/.04	Lip seal	81-59	Stator
433.01	Mechanical seal (gear side)	81-73	Cable support
433.02	Mechanical seal (propeller side)	811	Motor housing
443	Seal insert	812	Motor housing cover
471	Seal cover	818	Rotor
476	Mating ring carrier	834	Cable gland
500	Ring	903.01/.02/.03/.04	Screw plug
529	Bearing sleeve	914.05/.06	Hexagon socket head cap screw
550.01/.03	Disc	932.01/.02/.03/.04/.07	Circlip
571	Lifting bail	970	Label/plate
680	Guard		

Enquiry sheet

To:

KSB Aktiengesellschaft

Turmstraße 92

06110 Halle/Saale (Germany)

Tel.: +49 345 4826-4648/4929

Fax: +49 345 4826-5107

From:

Company name	
Contact person	
Street/number	
Post/zip code, city	
Country	
Telephone number	
Fax number	
E-mail	

Project name

Mains frequency:

- ☐ 50 Hz
- ☐ 60 Hz

Mains voltage:

U [V]	

Digestion process

Type of digestion process

- ☐ Mesophilic/thermophilic
- ☐ Substrate preparation
- ☐ Wet digestion
- ☐ Dry digestion
- ☐ External hydrolysis stage
- ☐ Other:

Tank (round)

Tank type:

- ☐ Main digester
- ☐ Post-digester
- ☐ Mixing tank (open/closed)
- ☐ Digestate storage tank (open/closed)

Material:

- ☐ Concrete
- ☐ Steel
- ☐ Stainless steel
- ☐ Steel, enamelled

Coating:

Explosion protection:

- ☐ Yes
- ☐ No

Inside diameter:

D [ft]	
D [m]	

Tank height:

D [ft]	
H [m]	

Fill level:

H [ft]	
H [m]	

Fill volume:

V [ft³]	
V [m³]	

Expected dry solids content:

[%]	

Temperature:

T [°F]	
T [°C]	

Fluctuating fill levels (from/to):

[ft]	
[m]	

Tank roof design:

- ☐ Concrete
- ☐ Membrane

Fluid

Type of substrate input:

☐ Wet input
☐ Dry input

Type of fluid:

☐	Maize/corn silage	[cwt/d]	
		[t/d]	
☐	Grass silage	[cwt/d]	
		[t/d]	
☐	Rye (whole plant silage)	[cwt/d]	
		[t/d]	
☐	Semi-liquid cattle manure	[ft³/d]	
		[m³/h]	
☐	Dry chicken manure	[cwt/d]	
		[t/d]	
☐	Semi-liquid pig manure	[ft³/d]	
		[m³/h]	
☐	Centrate	[ft³/d]	
		[m³/h]	
☐	Other:	[cwt/d]	
		[t/d]	
		[ft³/d]	
		[m³/h]	

Total dry solids content of substrates:

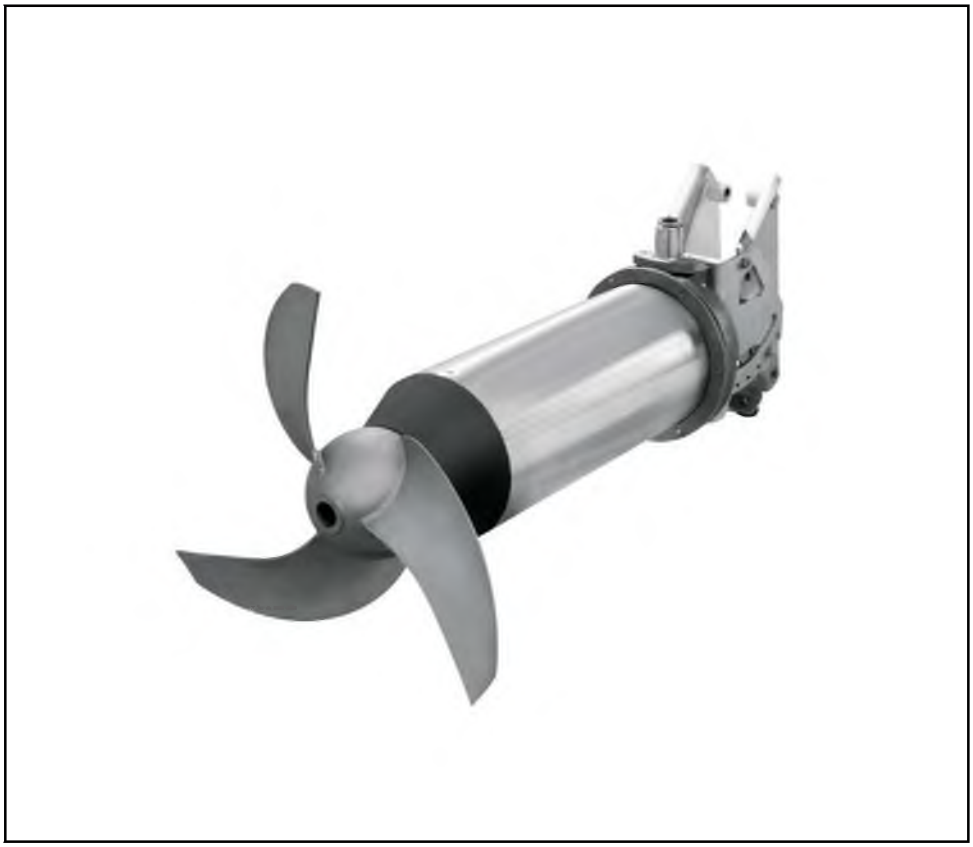
[%]	

Other:

Submersible Mixer

Amamix

Type Series Booklet



Legal information/Copyright

Type Series Booklet Amamix

Contents

Waste Water

Submersible Mixer

Amamix

Main applications

- Mixing
- Homogenisation
- Sludge thickening
- Sludge holding tanks
- Primary sedimentation tanks
- Secondary sedimentation tanks
- Heat transfer optimisation
- Maintaining clean pump sumps
- Preventing the formation of deposits at tank walls and floors
- Breaking up and transporting floating sludge

Fluids handled

- Industrial waste water
- Waste water with faeces
- Faecal-free waste water
- Activated sludge
- Digested sludge
- Raw sludge

Operating data

Operating properties

Characteristic		Value
Propeller diameter	D [mm]	225 - 630
Power range	P [kW]	≤ 10
Fluid temperature	T [°C]	≤ 40
Installation depth	ET [m]	≤ 30

Designation

Example: Amamix C 57 3 5 R / 10 12 YD G

Designation key

Code	Description	
Amamix	Type series	
C	Propeller material	
	C	Stainless steel
	G	Grey cast iron
57	Nominal propeller diameter, e.g. 570 mm	
3	Number of blades	
	2, 3	
5	Code for incidence angle of propeller	
	1, 5, 6, 8	
R	[1]	Version without jet ring
	R	Version with jet ring
10	Motor size	
	0, 2, 3, 4, 6, 8, 10	
12	Number of motor poles	
	4, 6, 8, 12	
YD	Motor variant	
	UD/UM	Standard design
	YD/YM	Explosion protection to ATEX
C	Casing material	
	C	Stainless steel
	G	Grey cast iron

Design details

Design

- Fully flooded submersible mixer
- Horizontal installation (with pitch adjustment)

Propeller

- Self-cleaning (ECB) propeller

Shaft seal

- Two bi-directional mechanical seals in tandem arrangement, with liquid reservoir

Bearings

- Grease-packed rolling element bearings sealed for life

Drive

- Three-phase asynchronous squirrel-cage motor
- Motors integrated in explosion-proof submersible mixers are supplied in Ex d IIB type of protection.

1) Blank

Materials

Overview of available materials

Component		Material variant	
		G	C
Motor housing		EN-GJL-250	1.4581
Motor housing cover		EN-GJL-250	1.4517
Casing cover		EN-GJL-250	1.4571
Propeller		PU[2)3)]	1.4571
Mechanical seal	Propeller end	SiC/SiC	
	Drive end	SiC/SiC	
Shaft		1.4571[4)]	
Elastomer seals		Viton (FPM)	
Screws/bolts		A4 (corresponds to 1.4571)	
Guide bracket		EN-GJL-250	1.4571
Supporting clamp		1.4571	
Jet ring (optional)		1.4571	

Product benefits

- High operating reliability due to dry, pressure-tight and encapsulated squirrel-cage motor, thermal class F
- Increased reliability due to bi-directional mechanical seal
- Temperature sensors prevent overheating of the motor
- Marked reduction of energy costs due to optimised propeller design
- Environmentally friendly oil fill
- Ease of service with bolts made of stainless steel which are easy to undo even after years of operation
- Absolutely watertight cable entry

Acceptance tests / Warranties

- Functional test
  Every submersible mixer is subjected to a functional test to KSB standard ZN 56525.
- Quality is assured by means of an audited and certified quality assurance system to DIN EN ISO 9001.
- Special acceptance tests are available on request.

Warranty information

Our warranty is based on and exclusively applies to your specifications as documented in the data sheet of the submersible mixer, and covers the relevant physical properties. Any warranty claims beyond the aforementioned aspects, as well as any claims resulting from an excessive solids content in the plant, the formation of floating blankets as well as failure to produce a specific gas yield, shall be excluded. The correct positioning of the submersible mixers is crucial for the overall function of the equipment. KSB's warranty obligations shall not cover any damage that may occur as a result of incorrect mixer positioning, i. e. installing the mixer in a position not expressly approved by KSB. In addition, low-flow areas (flow separation) resulting from the tank geometry shall not be covered by our warranty. Furthermore, we shall not assume any liability if our submersible mixers are used in patented processes and/or in case of protected rights of third parties.

Unauthorised modifications, the mixer's use for fluids and operating conditions not specified in the purchase order, as well as the use of non-KSB installation parts without KSB's prior consent will result in the forfeiture of any and all claims for damages. The same applies to consequential damage (e.g. resultant process downtime).

2) Polyurethane
3) Optional: 1.4571
4) Amamix 600 G in 1.4021

Standard and special designs

Standard and special designs

Option	Comments
Analysing device for leakage sensor	Available for all sizes
Propeller in 1.4571 instead of polyurethane	Amamix 200 in material variant G, for fluids containing coarse solids
Propeller C2227 instead of V2227	
Propeller C2223 instead of V2230	
Propeller C2233 instead of V2235	
Bail	All sizes
Wear-resistant adapter	Amamix 300/400/600, (⇨ Page 64)
Additional operating manuals	Standard: 1 operating manual per pump set
Flow simulation	Available for all sizes

For any versions not documented in this type series booklet or special versions please always contact KSB for technical details, prices and delivery periods.

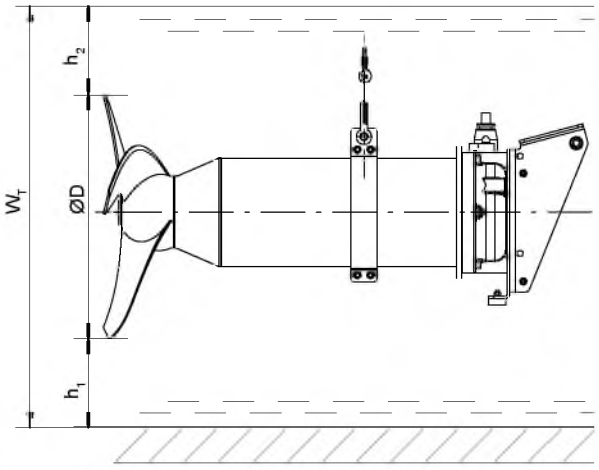
Examples:

- Other voltages
- Special coatings
- Combinations with special motor/special propeller (e.g. for higher-viscosity fluids)
- Special installation parts
- Versions for higher application temperatures
- Other mechanical seal and elastomer materials

Selection information

Minimum level of fluid handled

The submersible mixer is operational when the fluid level is not lower than dimension W_T. This minimum level of the fluid handled must also be ensured during automatic operation.



Minimum level of fluid handled

Minimum level of fluid handled

Ø D	$h_{1\,min}$	$h_{2\,min}$	$W_{T\,min}$
[mm]	[m]	[m]	[m]
200	0,12	0,50	0,82
300	0,15	0,80	1,25
400	0,20	0,85	1,45
600	0,30	1,00	1,90

A minimum distance h_1 should also be kept from any vertical walls. If more than one submersible mixer is installed, the mixers should be spaced at a distance ØD. Reflections of the water jet and flow turbulence must be taken into account.

With accessories set 6 for shallow tanks and racetracks, the floor clearance h_1 can be reduced to approx. 50 mm. Condition: solid floor (concrete/steel/plastics)

Programme overview / selection tables

Overview of range

Overview of range (material variants G, C)

Feature	Amamix 200		Amamix 300		Amamix 400		Amamix 600	
	G	C	G	C	G	C	G	C
Number of motor poles								
4	1 4 UD/YD 2 4 UD/YD		-		-		-	-
6	-		0 6 UD/YD 2 6 UD/YD		-		-	-
8	-		-		3 8 UD/YD 4 8 UD/YD		-	-
12	-		-		-		6 12 UDG/YDG 10 12 UDG/YDG	4 12 UMC/YMC 8 12 UMC/YMC
Power range	Up to 2.5 kW		Up to 3.2 kW		Up to 4 kW		Up to 10 kW	
Explosion protection								
Version UD/UM	-							
Version YD/YM	Ⓔx II2G Ex dc IIB T4							
Motor								
Starting method	DOL				DOL or star-delta			
Voltage and frequency	400 V[5] 50 Hz, suitable for operation on a frequency inverter							
Cooling	Cooled by surrounding fluid							
Immersion depth	Up to 30 m							
Power cable								
Length	10 m[6]							
Cable entry	Absolutely watertight							
Type	See table "Overview of power cables"							
Bearings	Grease-packed rolling element bearings sealed for life							
Sealing elements								
Elastomer seals	Viton (fluorocarbon rubber FPM)							
Shaft seal	Bellows-type mechanical seal[7]							
Monitoring								
Winding temperature	PTC							
Motor leakage	Leakage sensor in the motor space							
Mechanical seal leakage	Optional: leakage sensor in the oil reservoir (UD/UM version and material variant C only)							
Coating								
Material variant G	Two-component epoxy resin coating							
Material variant C	-							
Permissible fluid temperature	40 °C							
Acceptance tests	To ISO 9001[8]							
Installation								
Stationary	Installation depth up to 30 m							

Overview of power cables

Feature	S1BN8-F rubber-sheathed cable	S07RC4N8-F rubber-sheathed cable	TEHSITE Tefzel cable
Design	Standard	Optional	Optional
Rated voltage	1000 V	750 V	750 V
EMC screening	-	✓	-
Insulation material	EPR[9]	EPR[9]	ETFE[10]
Max. continuous temperature of insulation	90 °C	90 °C	135 °C
For permanent immersion in waste water to DIN VDE 0282-16/HD22.16	✓	✓	✓

5) Optional: 500 V and 690 V on request
6) Optional: 15 m, 20 m, > 20 m on request
7) Optional: mechanical seal with covered spring
8) Optional: with test report EN 10204-2.2
9) EPR = ethylene propylene rubber
10) ETFE = ethylene tetrafluoroethylene

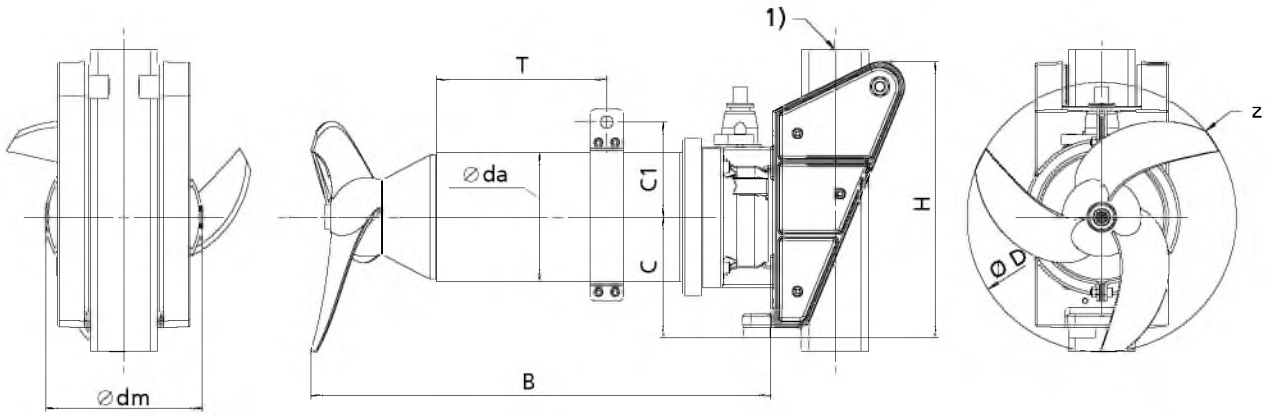
Submersible mixer / motor combinations

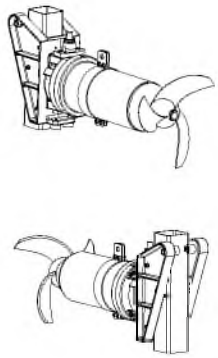
Overview of submersible mixer / motor combinations

Size	Motors									
	1 4	2 4	0 6	2 6	3 8	4 8	4 12	6 12	8 12	10 12
Motor housing material grey cast iron										
200 G	✗	✗	-	-	-	-	-	-	-	-
300 G	-	-	✗	✗	-	-	-	-	-	-
400 G	-	-	-	-	✗	✗	-	-	-	-
600 G	-	-	-	-	-	-	-	✗	-	✗
Motor housing material stainless steel										
200 C	✗	✗	-	-	-	-	-	-	-	-
300 C	-	-	✗	✗	-	-	-	-	-	-
400 C	-	-	-	-	✗	✗	-	-	-	-
600 C	-	-	-	-	-	-	✗	-	✗	-

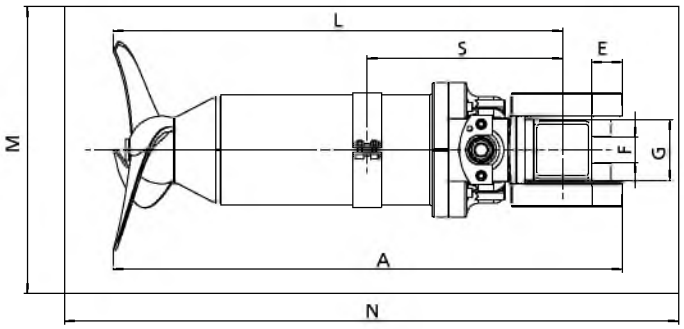
Dimensions

Amamix 200, 400 V, 50 Hz, n = 1400 rpm, material variant G - version without jet ring

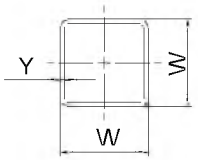




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

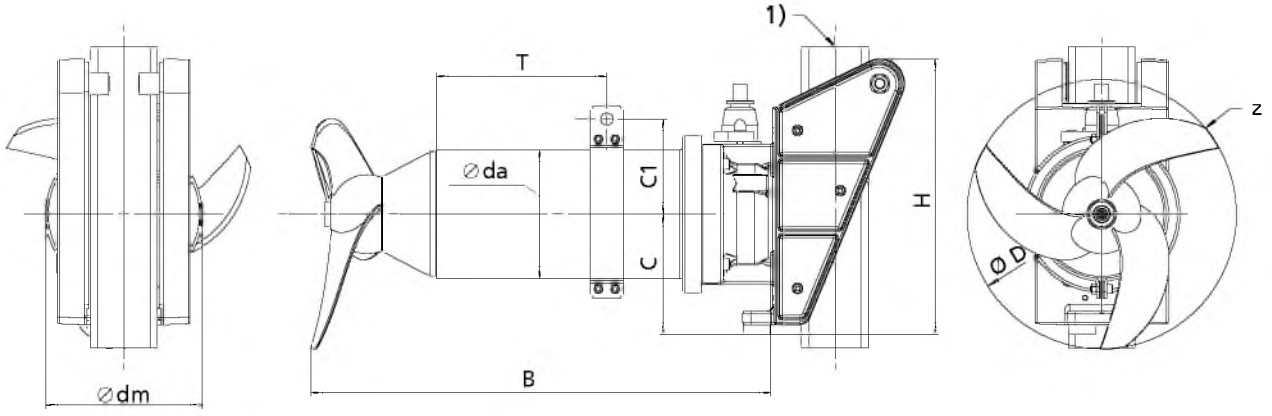
Size	P_2 [kW]	[kg][11)]	z[12)]	Guide rail	
				W [mm]	Y [mm]
V 2227 / 1 4 UDG / YDG	1,25	35	2	60	3
V 2227 / 2 4 UDG / YDG	2,5	37,7	2	60	3
V 2230 / 2 4 UDG / YDG	2,5	37,7	3	60	3
V 2235 / 2 4 UDG / YDG	2,5	37,7	3	60	3
C 2227 / 1 4 UDG / YDG	2,5	37,7	2	60	3
C 2227 / 2 4 UDG / YDG	2,5	37,7	2	60	3
C 2223 / 2 4 UDG / YDG	2,5	37,7	2	60	3
C 2233 / 2 4 UDG / YDG	2,5	37,7	3	60	3

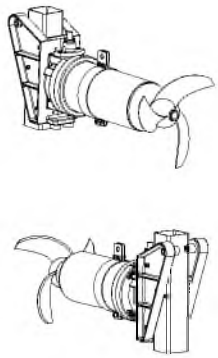
Dimensions [mm]

Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
V 2227 / 1 4 UDG / YDG	596	459	150	124	~225	156	187	42	36	66	287	524	225	780	210	240
V 2227 / 2 4 UDG / YDG	596	459	150	124	~225	156	187	42	36	66	287	524	225	780	215	235
V 2230 / 2 4 UDG / YDG	596	459	150	124	~225	156	187	42	36	66	287	524	275	780	215	235
V 2235 / 2 4 UDG / YDG	596	459	150	124	~225	156	187	42	36	66	287	524	275	780	215	235
C 2227 / 1 4 UDG / YDG	596	459	150	124	~225	156	187	42	36	66	287	524	225	780	215	235
C 2227 / 2 4 UDG / YDG	596	459	150	124	~225	156	187	42	36	66	287	524	225	780	215	235
C 2223 / 2 4 UDG / YDG	596	459	150	124	~225	156	187	42	36	66	287	524	225	780	215	235
C 2233 / 2 4 UDG / YDG	596	459	150	124	~225	156	187	42	36	66	287	524	275	780	215	235

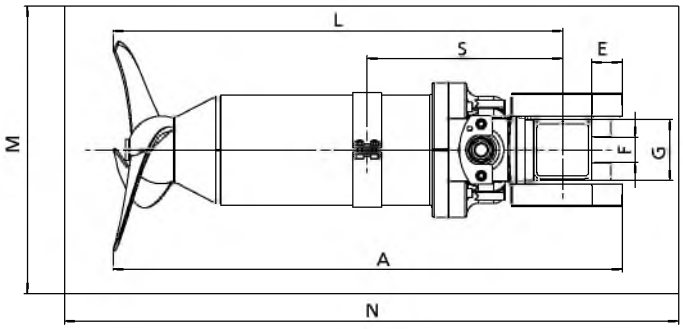
11) Incl. 10-metre power cable and guide bracket
12) z = number of blades

Amamix 200, 400 V, 50 Hz, n = 1400 rpm, material variant C - version without jet ring

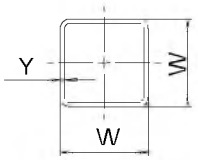




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

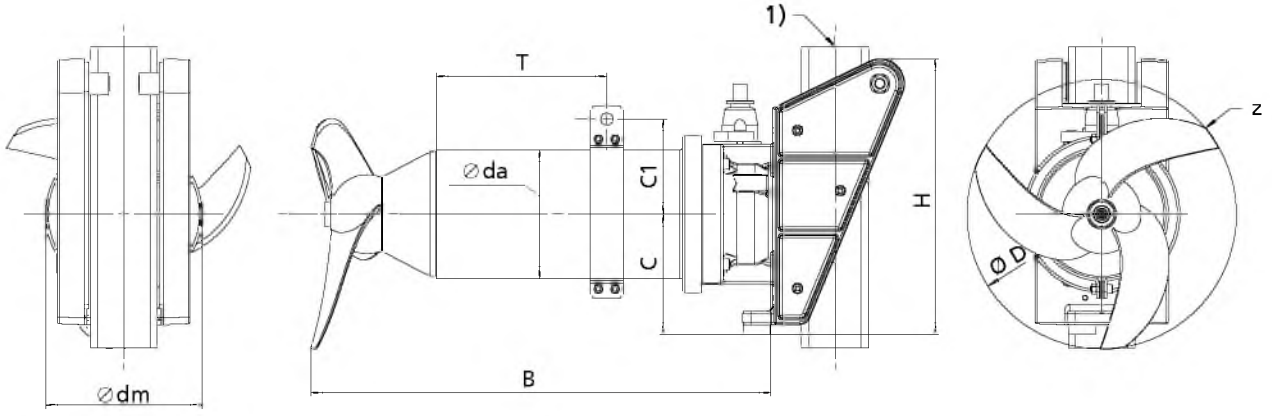
Size	P_2 [kW]	[kg][13]	z[14]	Guide rail	
				W [mm]	Y [mm]
C 2227 /1 4 UDC / YDC	1,25	34	2	60	3
C 2227 /2 4 UDC / YDC	2,5	36,5	2	60	3
C 2223 /2 4 UDC / YDC	2,5	36,5	2	60	3
C 2233 /2 4 UDC / YDC	2,5	36,5	3	60	3

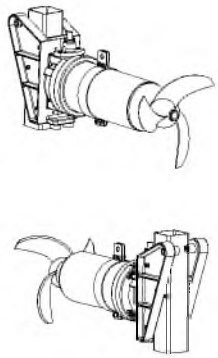
Dimensions [mm]

Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 2227 / 1 4 UDC / YDC	592	459	150	120	~225	148	187	42	36	66	287	520	225	780	220	200
C 2227 / 2 4 UDC / YDC	592	459	150	120	~225	148	187	42	36	66	287	520	225	780	225	195
C 2223 / 2 4 UDC / YDC	592	459	150	120	~225	148	187	42	36	66	287	520	225	780	225	195
C 2233 / 2 4 UDC / YDC	592	459	150	120	~225	148	187	42	36	66	287	520	275	780	225	195

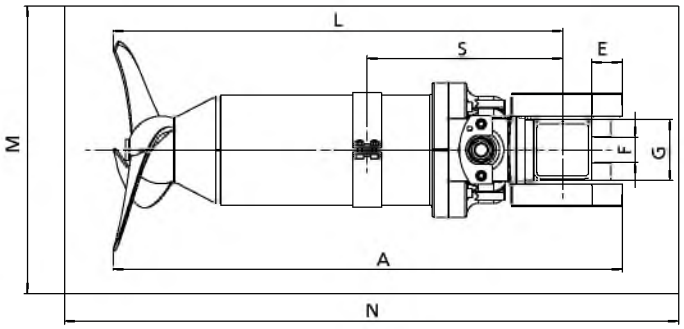
13) Incl. 10-metre power cable and guide bracket
14) z = number of blades

Amamix 300, 400 V, 50 Hz, n = 920 rpm, material variant G - version without jet ring

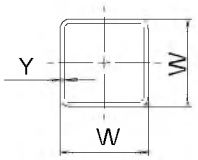




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

Size	P_2 [kW]	[kg][15]	z[16]	Guide rail	
				W [mm]	Y [mm]
C 2925 / 0 6 UDG / YDG	1,8	53,5	2	60	3
C 2928 / 0 6 UDG / YDG	1,8	53,5	2	60	3
C 3225 / 0 6 UDG / YDG	1,8	53,5	2	60	3
C 3228 / 0 6 UDG / YDG	1,8	53,5	2	60	3
C 2936 / 0 6 UDG / YDG	1,8	53,5	3	60	3
C 2938 / 0 6 UDG / YDG	1,8	53,5	3	60	3
C 2925 / 2 6 UDG / YDG	3,2	53,5	2	60	3
C 2928 / 2 6 UDG / YDG	3,2	53,5	2	60	3
C 3225 / 2 6 UDG / YDG	3,2	53,5	2	60	3
C 3228 / 2 6 UDG / YDG	3,2	53,5	2	60	3
C 2936 / 2 6 UDG / YDG	3,2	53,5	3	60	3
C 2938 / 2 6 UDG / YDG	3,2	53,5	3	60	3
C 3236 / 2 6 UDG / YDG	3,2	53,5	3	60	3
C 3238 / 2 6 UDG / YDG	3,2	53,5	3	60	3
C 2931 / 2 6 UDG / YDG	3,2	53,5	3	60	3
C 2935 / 2 6 UDG / YDG	3,2	53,5	3	60	3
C 3231 / 2 6 UDG / YDG	3,2	53,5	3	60	3

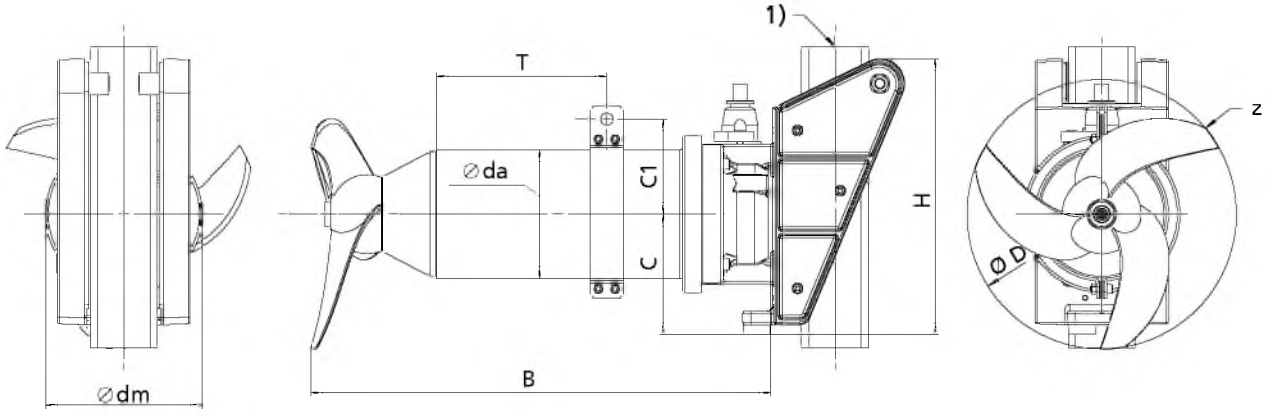
Dimensions [mm]

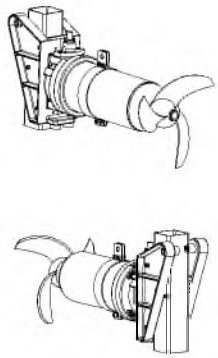
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 2925 / 0 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	275	910	268	230
C 2928 / 0 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	275	910	268	230
C 3225 / 0 6 UDG / YDG	731	594	150	124	325	156	187	42	36	66	287	659	275	910	268	230

15) Incl. 10-metre power cable and guide bracket
16) z = number of blades

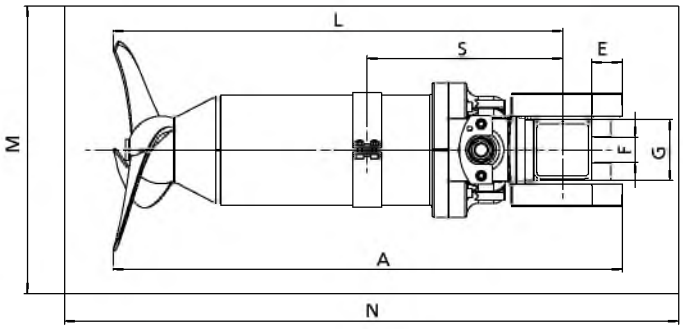
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 3228 / 0 6 UDG / YDG	731	594	150	124	325	156	187	42	36	66	287	659	275	910	268	230
C 2936 / 0 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	375	910	268	230
C 2938 / 0 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	375	910	268	230
C 2925 / 2 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	275	910	268	230
C 2928 / 2 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	275	910	268	230
C 3225 / 2 6 UDG / YDG	731	594	150	124	325	156	187	42	36	66	287	659	275	910	268	230
C 3228 / 2 6 UDG / YDG	731	594	150	124	325	156	187	42	36	66	287	659	275	910	268	230
C 2936 / 2 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	375	910	268	230
C 2938 / 2 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	375	910	268	230
C 3236 / 2 6 UDG / YDG	731	594	150	124	325	156	187	42	36	66	287	659	375	910	268	230
C 3238 / 2 6 UDG / YDG	731	594	150	124	325	156	187	42	36	66	287	659	375	910	268	230
C 2931 / 2 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	375	910	268	230
C 2935 / 2 6 UDG / YDG	731	594	150	124	294	156	187	42	36	66	287	659	375	910	268	230
C 3231 / 2 6 UDG / YDG	731	594	150	124	325	156	187	42	36	66	287	659	375	910	268	230

Amamix 300, 400 V, 50 Hz, n = 920 rpm, material variant C - version without jet ring

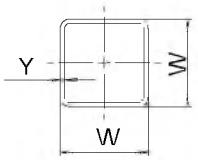




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

Size	P_2 [kW]	[kg][17]	z[18]	Guide rail	
				W [mm]	Y [mm]
C 2925 / 0 6 UDC / YDC	1,8	47	2	60	3
C 2928 / 0 6 UDC / YDC	1,8	47	2	60	3
C 3225 / 0 6 UDC / YDC	1,8	47	2	60	3
C 3228 / 0 6 UDC / YDC	1,8	47	2	60	3
C 2936 / 0 6 UDC / YDG	1,8	47	3	60	3
C 2938 / 0 6 UDC / YDC	1,8	47	3	60	3
C 2925 / 2 6 UDC / YDC	3,2	47	2	60	3
C 2928 / 2 6 UDC / YDC	3,2	47	2	60	3
C 3225 / 2 6 UDC / YDC	3,2	47	2	60	3
C 3228 / 2 6 UDC / YDC	3,2	47	2	60	3
C 2936 / 2 6 UDC / YDC	3,2	47	3	60	3
C 2938 / 2 6 UDC / YDC	3,2	47	3	60	3
C 3236 / 2 6 UDC / YDC	3,2	47	3	60	3
C 3238 / 2 6 UDC / YDC	3,2	47	3	60	3
C 2931 / 2 6 UDC / YDC	3,2	47	3	60	3
C 2935 / 2 6 UDC / YDC	3,2	47	3	60	3
C 3231 / 2 6 UDC / YDC	3,2	47	3	60	3

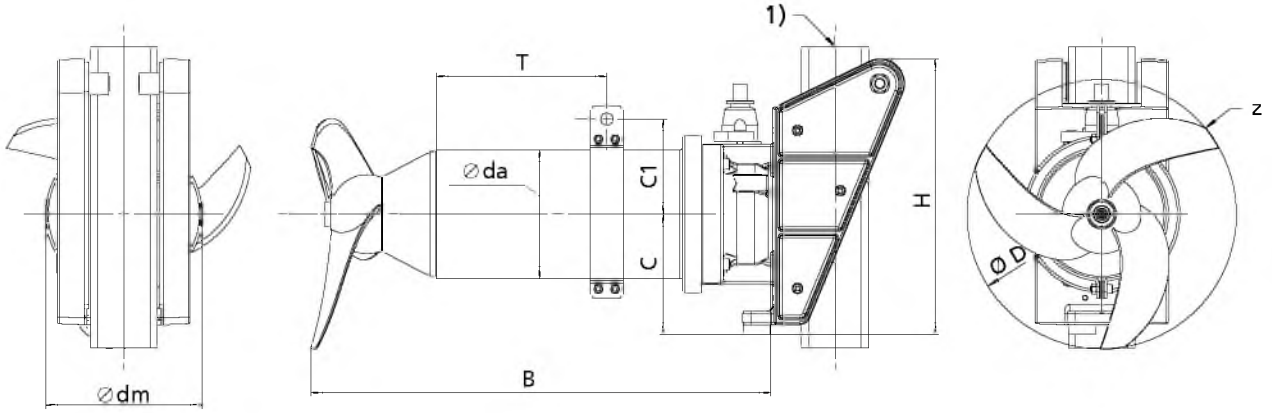
Dimensions [mm]

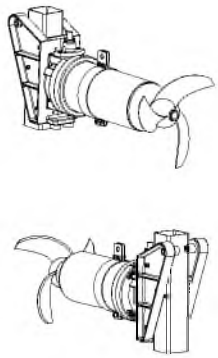
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 2925 / 0 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	275	910	264	230
C 2928 / 0 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	275	910	264	230
C 3225 / 0 6 UDC / YDC	727	594	150	120	325	148	187	42	36	66	287	655	275	910	264	230

17) Incl. 10-metre power cable and guide bracket
18) z = number of blades

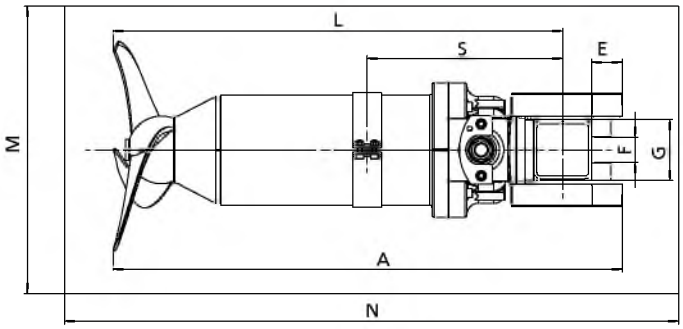
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 3228 / 0 6 UDC / YDC	727	594	150	120	325	148	187	42	36	66	287	655	275	910	264	230
C 2936 / 0 6 UDC / YDG	727	594	150	120	294	148	187	42	36	66	287	655	375	910	264	230
C 2938 / 0 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	375	910	264	230
C 2925 / 2 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	275	910	264	230
C 2928 / 2 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	275	910	264	230
C 3225 / 2 6 UDC / YDC	727	594	150	120	325	148	187	42	36	66	287	655	275	910	264	230
C 3228 / 2 6 UDC / YDC	727	594	150	120	325	148	187	42	36	66	287	655	275	910	264	230
C 2936 / 2 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	375	910	264	230
C 2938 / 2 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	375	910	264	230
C 3236 / 2 6 UDC / YDC	727	594	150	120	325	148	187	42	36	66	287	655	375	910	264	230
C 3238 / 2 6 UDC / YDC	727	594	150	120	325	148	187	42	36	66	287	655	375	910	264	230
C 2931 / 2 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	375	910	264	230
C 2935 / 2 6 UDC / YDC	727	594	150	120	294	148	187	42	36	66	287	655	375	910	264	230
C 3231 / 2 6 UDC / YDC	727	594	150	120	325	148	187	42	36	66	287	655	375	910	264	230

Amamix 400, 400 V, 50 Hz, n = 700 rpm, material variant G - version without jet ring

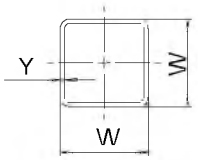




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

Size	P_2 [kW]	[kg][19]	z[20]	Guide rail	
				W [mm]	Y [mm]
C 3725 / 3 8 UDG / YDG	2,5	83	2	60	3
C 3728 / 3 8 UDG / YDG	2,5	83	2	60	3
C 4125 / 3 8 UDG / YDG	2,5	83	2	60	3
C 4128 / 3 8 UDG / YDG	2,5	83	2	60	3
C 3738 / 3 8 UDG / YDG	2,5	83	3	60	3
C 4138 / 3 8 UDG / YDG	2,5	83	3	60	3
C 3725 / 4 8 UDG / YDG	4	83	2	60	3
C 3728 / 4 8 UDG / YDG	4	83	2	60	3
C 4125 / 4 8 UDG / YDG	4	83	2	60	3
C 4128 / 4 8 UDG / YDG	4	83	2	60	3
C 3738 / 4 8 UDG / YDG	4	83	3	60	3
C 4138 / 4 8 UDG / YDG	4	83	3	60	3
C 3731 / 4 8 UDG / YDG	4	83	3	60	3
C 3735 / 4 8 UDG / YDG	4	83	3	60	3
C 4131 / 4 8 UDG / YDG	4	83	3	60	3
C 4135 / 4 8 UDG / YDG	4	91	3	100	5

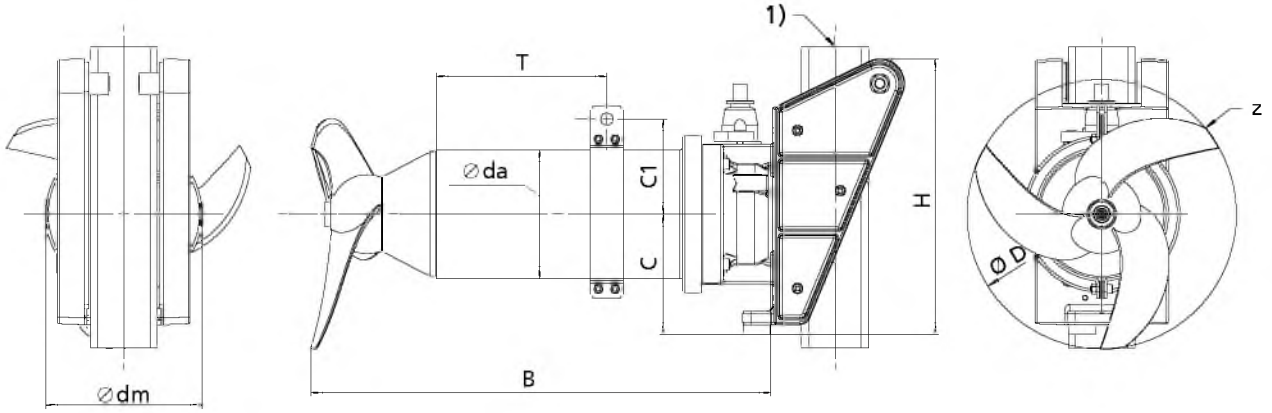
Dimensions [mm]

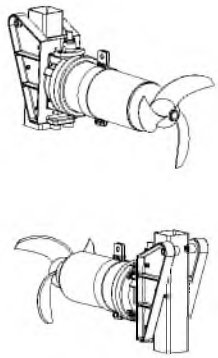
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 3725 / 3 8 UDG / YDG	844	687	100	142	373	192	234	42	36	66	287	772	285	1050	321	275
C 3728 / 3 8 UDG / YDG	844	687	100	142	373	192	234	42	36	66	287	772	285	1050	321	275
C 4125 / 3 8 UDG / YDG	844	687	100	142	410	192	234	42	36	66	287	772	285	1050	321	275
C 4128 / 3 8 UDG / YDG	844	687	100	142	410	192	234	42	36	66	287	772	285	1050	321	275

19) Incl. 10-metre power cable and guide bracket
20) z = number of blades

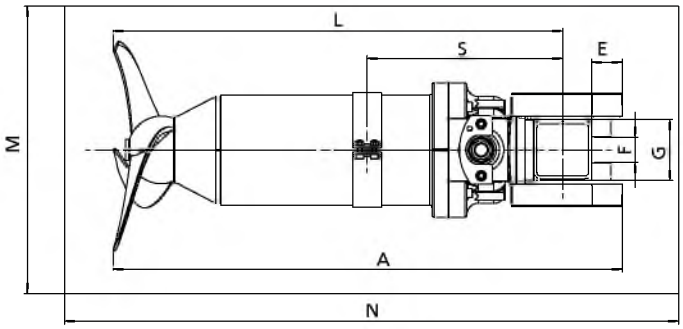
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 3738 / 3 8 UDG / YDG	844	687	100	142	373	192	234	42	36	66	287	772	460	1050	321	275
C 4138 / 3 8 UDG / YDG	844	687	100	142	410	192	234	42	36	66	287	772	460	1050	321	275
C 3725 / 4 8 UDG / YDG	844	687	100	142	373	192	234	42	36	66	287	772	285	1050	321	275
C 3728 / 4 8 UDG / YDG	844	687	100	142	373	192	234	42	36	66	287	772	285	1050	321	275
C 4125 / 4 8 UDG / YDG	844	687	100	142	410	192	234	42	36	66	287	772	285	1050	321	275
C 4128 / 4 8 UDG / YDG	844	687	100	142	410	192	234	42	36	66	287	772	285	1050	321	275
C 3738 / 4 8 UDG / YDG	844	687	100	142	373	192	234	42	36	66	287	772	460	1050	321	275
C 4138 / 4 8 UDG / YDG	844	687	100	142	410	192	234	42	36	66	287	772	460	1050	321	275
C 3731 / 4 8 UDG / YDG	844	687	100	142	373	192	234	42	36	66	287	772	460	1050	321	275
C 3735 / 4 8 UDG / YDG	844	687	100	142	373	192	234	42	36	66	287	772	460	1050	321	275
C 4131 / 4 8 UDG / YDG	844	687	100	142	410	192	234	42	36	66	287	772	460	1050	321	275
C 4135 / 4 8 UDG / YDG	876	687	180	142	410	192	234	43	44	106	412	783	460	1150	321	275

Amamix 400, 400 V, 50 Hz, n = 700 rpm, material variant C - version without jet ring

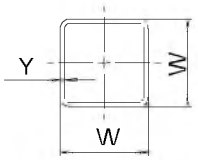




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

Size	P_2 [kW]	[kg][21]	z[22]	Guide rail	
				W [mm]	Y [mm]
C 3725 / 3 8 UDC / YDC	2,5	82,5	2	60	3
C 3728 / 3 8 UDC / YDC	2,5	82,5	2	60	3
C 4125 / 3 8 UDC / YDC	2,5	82,5	2	60	3
C 4128 / 3 8 UDC / YDC	2,5	82,5	2	60	3
C 3738 / 3 8 UDC / YDC	2,5	82,5	3	60	3
C 4138 / 3 8 UDC / YDC	2,5	82,5	3	60	3
C 3725 / 4 8 UDC / YDC	4	82,5	2	60	3
C 3728 / 4 8 UDC / YDC	4	82,5	2	60	3
C 4125 / 4 8 UDC / YDC	4	82,5	2	60	3
C 4128 / 4 8 UDC / YDC	4	82,5	2	60	3
C 3738 / 4 8 UDC / YDC	4	82,5	3	60	3
C 4138 / 4 8 UDC / YDC	4	82,5	3	60	3
C 3731 / 4 8 UDC / YDC	4	82,5	3	60	3
C 3735 / 4 8 UDC / YDC	4	82,5	3	60	3
C 4131 / 4 8 UDC / YDC	4	82,5	3	60	3
C 4135 / 4 8 UDC / YDC	4	84	3	100	5

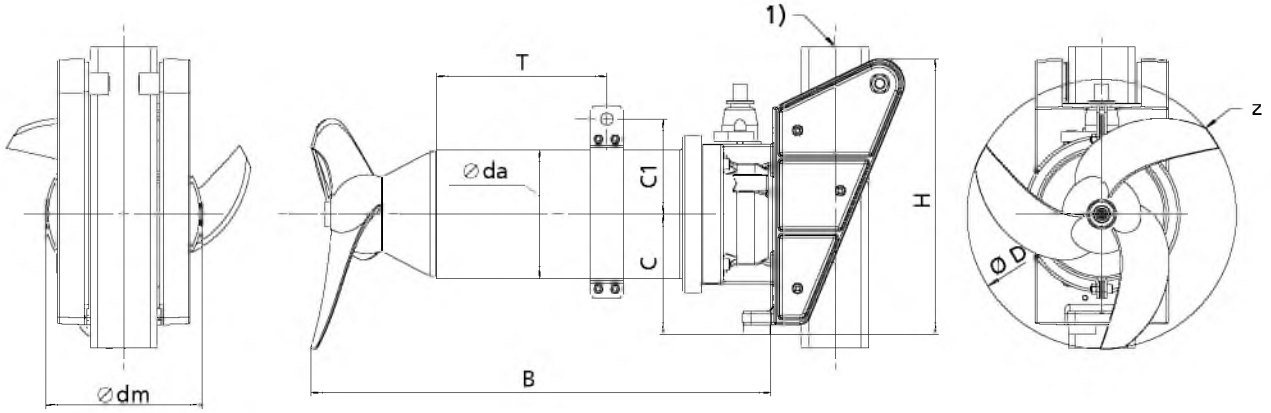
Dimensions [mm]

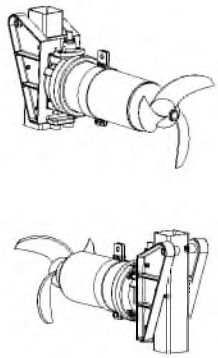
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 3725 / 3 8 UDC / YDC	844	687	150	139	373	186	234	42	36	66	287	772	285	1050	318	275
C 3728 / 3 8 UDC / YDC	844	687	150	139	373	186	234	42	36	66	287	772	285	1050	318	275
C 4125 / 3 8 UDC / YDC	844	687	150	139	410	186	234	42	36	66	287	772	285	1050	318	275
C 4128 / 3 8 UDC / YDC	844	687	150	139	410	186	234	42	36	66	287	772	285	1050	318	275

21) Incl. 10-metre power cable and guide bracket
22) z = number of blades

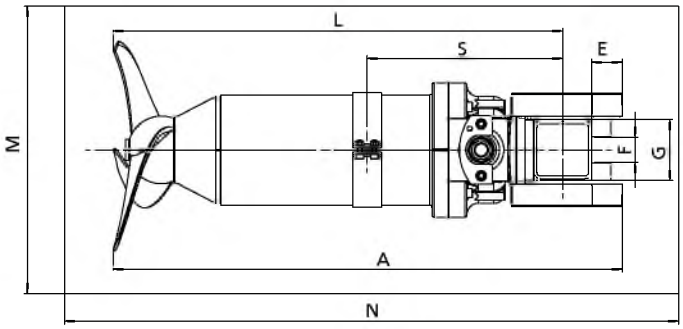
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 3738 / 3 8 UDC / YDC	844	687	150	139	373	186	234	42	36	66	287	772	460	1050	318	275
C 4138 / 3 8 UDC / YDC	844	687	150	139	410	186	234	42	36	66	287	772	460	1050	318	275
C 3725 / 4 8 UDC / YDC	844	687	150	139	373	186	234	42	36	66	287	772	285	1050	318	275
C 3728 / 4 8 UDC / YDC	844	687	150	139	373	186	234	42	36	66	287	772	285	1050	318	275
C 4125 / 4 8 UDC / YDC	844	687	150	139	410	186	234	42	36	66	287	772	285	1050	318	275
C 4128 / 4 8 UDC / YDC	844	687	150	139	410	186	234	42	36	66	287	772	285	1050	318	275
C 3738 / 4 8 UDC / YDC	844	687	150	139	373	186	234	42	36	66	287	772	460	1050	318	275
C 4138 / 4 8 UDC / YDC	844	687	150	139	410	186	234	42	36	66	287	772	460	1050	318	275
C 3731 / 4 8 UDC / YDC	844	687	150	139	373	186	234	42	36	66	287	772	460	1050	318	275
C 3735 / 4 8 UDC / YDC	844	687	150	139	373	186	234	42	36	66	287	772	460	1050	318	275
C 4131 / 4 8 UDC / YDC	844	687	150	139	410	186	234	42	36	66	287	772	460	1050	318	275
C 4135 / 4 8 UDC / YDC	873	687	180	139	410	186	234	43	44	106	420	780	460	1150	318	275

Amamix 600, 400 V, 50 Hz, n = 475 rpm, material variant G - version without jet ring

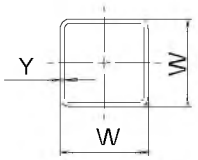




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

Size	P_2 [kW]	[kg][23]	z[24]	Guide rail	
				W [mm]	Y [mm]
C 5725 / 6 12 UDG / YDG	5	221	2	100	5
C 5728 / 6 12 UDG / YDG	5	221	2	100	5
C 6325 / 6 12 UDG / YDG	5	221	2	100	5
C 6328 / 6 12 UDG / YDG	5	221	2	100	5
C 5725 / 10 12 UDG / YDG	10	235	2	100	5
C 5728 / 10 12 UDG / YDG	10	235	2	100	5
C 6325 / 10 12 UDG / YDG	10	235	2	100	5
C 6328 / 10 12 UDG / YDG	10	235	2	100	5
C 5738 / 10 12 UDG / YDG	10	235	3	100	5
C 6338 / 10 12 UDG / YDG	10	235	3	100	5
C 5731 / 10 12 UDG / YDG	10	235	3	100	5
C 5735 / 10 12 UDG / YDG	10	235	3	100	5
C 6331 / 10 12 UDG / YDG	10	235	3	100	5
C 6335 / 10 12 UDG / YDG	10	235	3	100	5

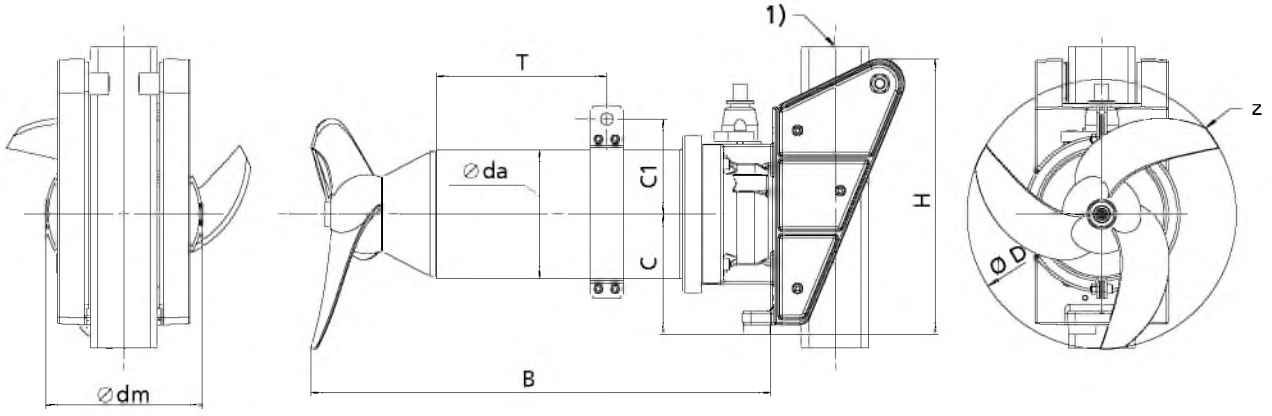
Dimensions [mm]

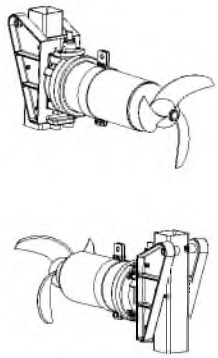
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 5725 / 6 12 UDG / YDG	1042	848	230	197	570	294	380	43	44	106	508	949	450	1310	393	280
C 5728 / 6 12 UDG / YDG	1042	848	230	197	570	294	380	43	44	106	508	949	450	1310	393	280
C 6325 / 6 12 UDG / YDG	1042	848	230	197	630	294	380	43	44	106	508	949	450	1310	393	280
C 6328 / 6 12 UDG / YDG	1042	848	230	197	630	294	380	43	44	106	508	949	450	1310	393	280
C 5725 / 10 12 UDG / YDG	1042	848	230	197	570	294	380	43	44	106	508	949	450	1310	393	280
C 5728 / 10 12 UDG / YDG	1042	848	230	197	570	294	380	43	44	106	508	949	450	1310	393	280

23) Incl. 10-metre power cable and guide bracket
24) z = number of blades

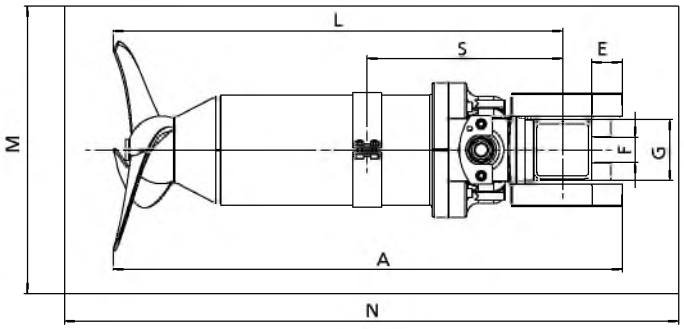
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 6325 / 10 12 UDG / YDG	1042	848	230	197	630	294	380	43	44	106	508	949	450	1310	393	280
C 6328 / 10 12 UDG / YDG	1042	848	230	197	630	294	380	43	44	106	508	949	450	1310	393	280
C 5738 / 10 12 UDG / YDG	1042	848	230	197	570	294	380	43	44	106	508	949	700	1310	393	280
C 6338 / 10 12 UDG / YDG	1042	848	230	197	630	294	380	43	44	106	508	949	700	1310	393	280
C 5731 / 10 12 UDG / YDG	1042	848	230	197	570	294	380	43	44	106	508	949	700	1310	393	280
C 5735 / 10 12 UDG / YDG	1042	848	230	197	570	294	380	43	44	106	508	949	700	1310	393	280
C 6331 / 10 12 UDG / YDG	1042	848	230	197	630	294	380	43	44	106	508	949	700	1310	393	280
C 6335 / 10 12 UDG / YDG	1042	848	230	197	630	294	380	43	44	106	508	949	700	1310	393	280

Amamix 600, 400 V, 50 Hz, n = 475 rpm, material variant C - version without jet ring

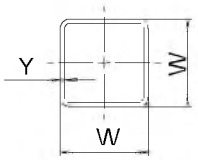




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

Size	P_2 [kW]	[kg][25]	z[26]	Guide rail	
				W [mm]	Y [mm]
C 5725 / 4 12 UMC / YMC	5	146	2	100	5
C 5728 / 4 12 UMC / YMC	5	146	2	100	5
C 6325 / 4 12 UMC / YMC	5	146	2	100	5
C 6328 / 4 12 UMC / YMC	5	146	2	100	5
C 5725 / 8 12 UMC / YMC	10	198	2	100	5
C 5728 / 8 12 UMC / YMC	10	198	2	100	5
C 6325 / 8 12 UMC / YMC	10	198	2	100	5
C 6328 / 8 12 UMC / YMC	10	198	2	100	5
C 5738 / 8 12 UMC / YMC	10	198	3	100	5
C 6338 / 8 12 UMC / YMC	10	198	3	100	5
C 5731 / 8 12 UMC / YMC	10	198	3	100	5
C 5735 / 8 12 UMC / YMC	10	198	3	100	5
C 6331 / 8 12 UMC / YMC	10	198	3	100	5
C 6335 / 8 12 UMC / YMC	10	198	3	100	5

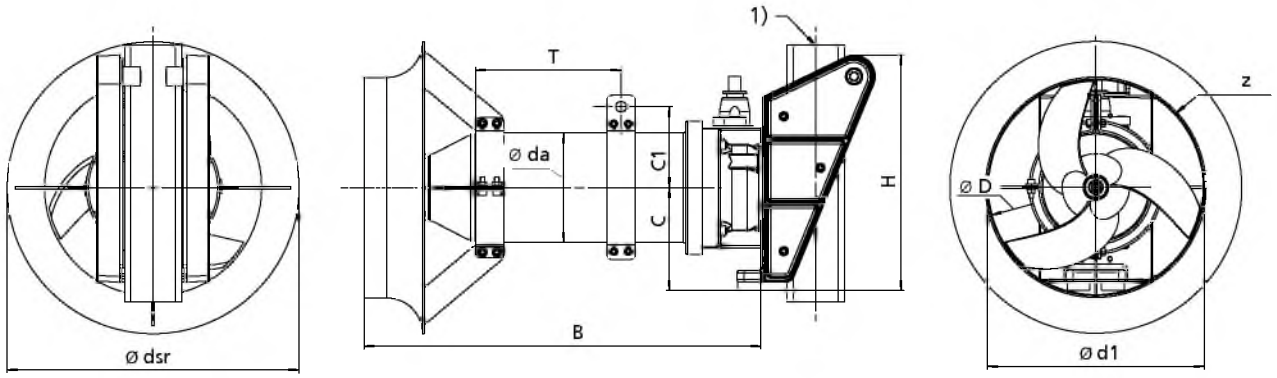
Dimensions [mm]

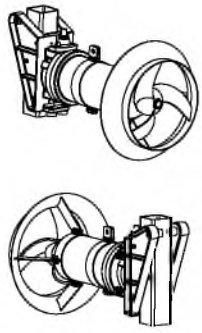
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 5725 / 4 12 UMC / YMC	1002	816	215	175	570	251	304	43	44	106	420	909	450	1270	360	275
C 5728 / 4 12 UMC / YMC	1002	816	215	175	570	251	304	43	44	106	420	909	450	1270	360	275
C 6325 / 4 12 UMC / YMC	1002	816	215	175	630	251	304	43	44	106	420	909	450	1270	360	275
C 6328 / 4 12 UMC / YMC	1002	816	215	175	630	251	304	43	44	106	420	909	450	1270	360	275
C 5725 / 8 12 UMC / YMC	1122	936	215	175	570	251	304	43	44	106	420	1029	450	1390	425	330
C 5728 / 8 12 UMC / YMC	1122	936	215	175	570	251	304	43	44	106	420	1029	450	1390	425	330

25) Incl. 10-metre power cable and guide bracket
26) z = number of blades

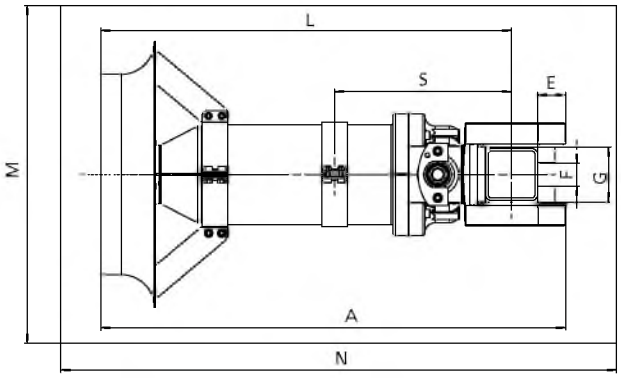
Size	A	B	C	C1	Ø D	Ø da	Ø dm	E	F	G	H	L	M	N	S	T
C 6325 / 8 12 UMC / YMC	1122	936	215	175	630	251	304	43	44	106	420	1029	450	1390	425	330
C 6328 / 8 12 UMC / YMC	1122	936	215	175	630	251	304	43	44	106	420	1029	450	1390	425	330
C 5738 / 8 12 UMC / YMC	1122	936	215	175	570	251	304	43	44	106	420	1029	700	1390	425	330
C 6338 / 8 12 UMC / YMC	1122	936	215	175	630	251	304	43	44	106	420	1029	700	1390	425	330
C 5731 / 8 12 UMC / YMC	1122	936	215	175	570	251	304	43	44	106	420	1029	700	1390	425	330
C 5735 / 8 12 UMC / YMC	1122	936	215	175	570	251	304	43	44	106	420	1029	700	1390	425	330
C 6331 / 8 12 UMC / YMC	1122	936	215	175	630	251	304	43	44	106	420	1029	700	1390	425	330
C 6335 / 8 12 UMC / YMC	1122	936	215	175	630	251	304	43	44	106	420	1029	700	1390	425	330

Amamix 300, 400 V, 50 Hz, n = 920 rpm, material variant G - version with jet ring

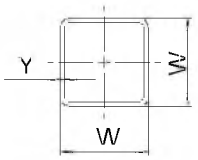




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

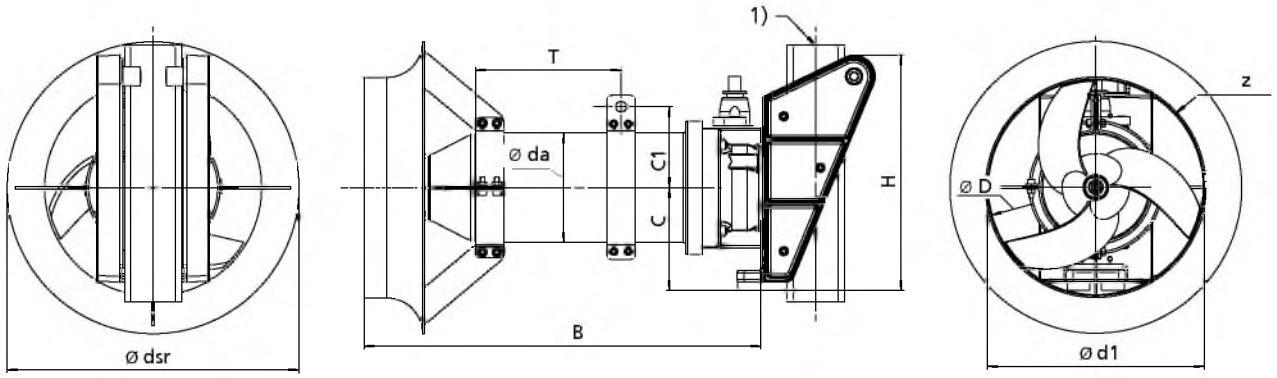
Size	P_2 [kW]	[kg][27]	z[28]	Guide rail	
				W [mm]	Y [mm]
C 2925 R / 0 6 UDG / YDG	1,8	58,2	2	60	3
C 2928 R / 0 6 UDG / YDG	1,8	58,2	2	60	3
C 2936 R / 0 6 UDG / YDG	1,8	58,2	3	60	3
C 2938 R / 0 6 UDG / YDG	1,8	58,2	3	60	3
C 2925 R / 2 6 UDG / YDG	3,2	58,2	2	60	3
C 2928 R / 2 6 UDG / YDG	3,2	58,2	2	60	3
C 2936 R / 2 6 UDG / YDG	3,2	58,2	3	60	3
C 2938 R / 2 6 UDG / YDG	3,2	58,2	3	60	3
C 2931 R / 2 6 UDG / YDG	3,2	58,2	3	60	3
C 2935 R / 2 6 UDG / YDG	3,2	58,2	3	60	3

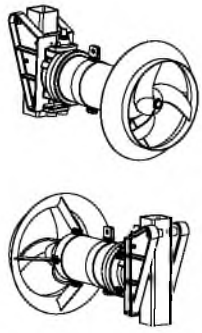
Dimensions [mm]

Size	A	B	C	C1	Ø D	Ø da	Ø d1	Ø dsr	E	F	G	H	L	M	N	S	T
C 2925 R / 0 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220
C 2928 R / 0 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220
C 2936 R / 0 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220
C 2938 R / 0 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220
C 2925 R / 2 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220
C 2928 R / 2 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220
C 2936 R / 2 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220
C 2938 R / 2 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220
C 2931 R / 2 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220
C 2935 R / 2 6 UDG / YDG	735	598	150	124	294	156	300	400	42	36	66	287	663	500	945	278	220

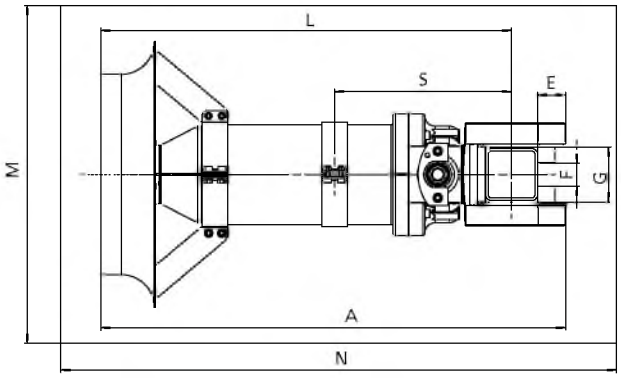
27) Incl. 10-metre power cable and guide bracket
28) z = number of blades

Amamix 300, 400 V, 50 Hz, n = 920 rpm, material variant C - version with jet ring

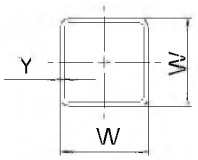




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

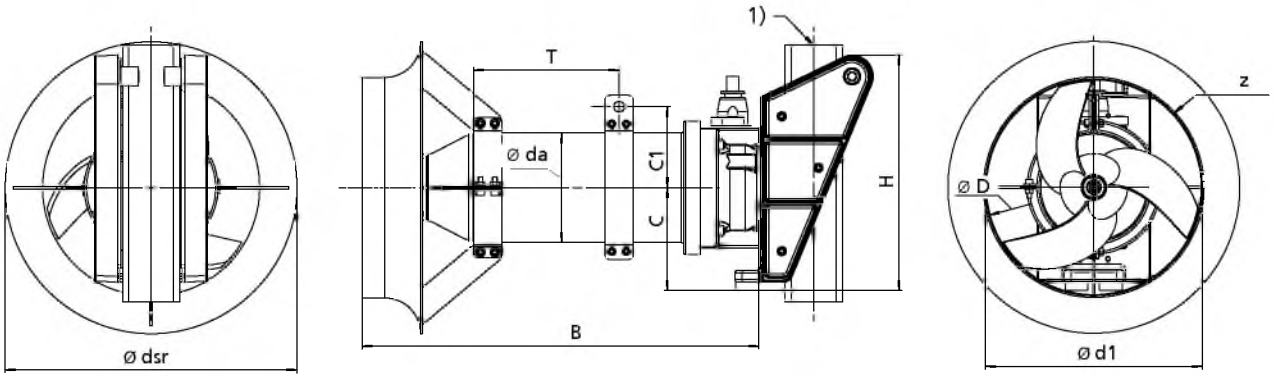
Size	P_2 [kW]	[kg][29]	z[30]	Guide rail	
				W [mm]	Y [mm]
C 2925 R / 0 6 UDC / YDC	1,8	51,7	2	60	3
C 2928 R / 0 6 UDC / YDC	1,8	51,7	2	60	3
C 2936 R / 0 6 UDC / YDC	1,8	51,7	3	60	3
C 2938 R / 0 6 UDC / YDC	1,8	51,7	3	60	3
C 2925 R / 2 6 UDC / YDC	3,2	51,7	2	60	3
C 2928 R / 2 6 UDC / YDC	3,2	51,7	2	60	3
C 2936 R / 2 6 UDC / YDC	3,2	51,7	3	60	3
C 2938 R / 2 6 UDC / YDC	3,2	51,7	3	60	3
C 2931 R / 2 6 UDC / YDC	3,2	51,7	3	60	3
C 2935 R / 2 6 UDC / YDC	3,2	51,7	3	60	3

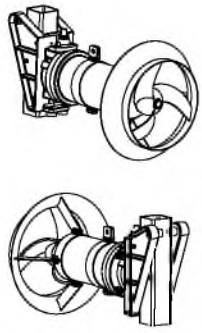
Dimensions [mm]

Size	A	B	C	C1	Ø D	Ø da	Ø d1	Ø dsr	E	F	G	H	L	M	N	S	T
C 2925 R / 0 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
C 2928 R / 0 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
C 2936 R / 0 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
C 2938 R / 0 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
C 2925 R / 2 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
C 2928 R / 2 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
C 2936 R / 2 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
C 2938 R / 2 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
C 2931 R / 2 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220
C 2935 R / 2 6 UDC / YDC	731	598	150	120	294	148	300	400	42	36	66	287	659	500	945	274	220

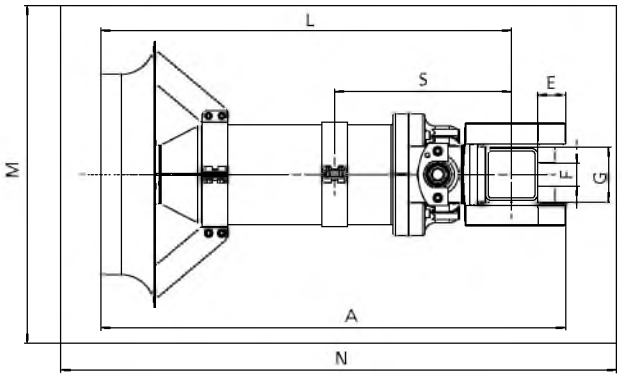
29) Incl. 10-metre power cable and guide bracket
30) z = number of blades

Amamix 400, 400 V, 50 Hz, n = 700 rpm, material variant G - version with jet ring

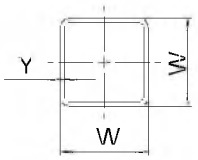




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

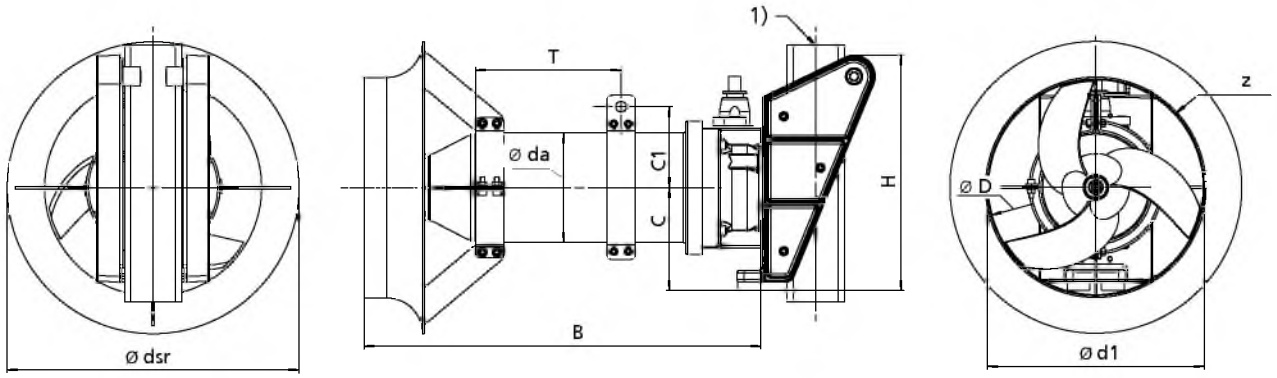
Size	P_2 [kW]	[kg][31]	z[32]	Guide rail	
				W [mm]	Y [mm]
C 3725 R / 3 8 UDG / YDG	2,5	89,8	2	60	3
C 3728 R / 3 8 UDG / YDG	2,5	89,8	2	60	3
C 3731 R / 3 8 UDG / YDG	2,5	89,8	3	60	3
C 3738 R / 3 8 UDG / YDG	2,5	89,8	3	60	3
C 3725 R / 4 8 UDG / YDG	4	89,8	2	60	3
C 3728 R / 4 8 UDG / YDG	4	89,8	2	60	3
C 3738 R / 4 8 UDG / YDG	4	89,8	3	60	3
C 3731 R / 4 8 UDG / YDG	4	89,8	3	60	3
C 3735 R / 4 8 UDG / YDG	4	89,8	3	60	3

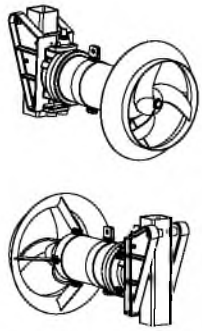
Dimensions [mm]

Size	A	B	C	C1	Ø D	Ø da	Ø d1	Ø dsr	E	F	G	H	L	M	N	S	T
C 3725 R / 3 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255
C 3728 R / 3 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255
C 3731 R / 3 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255
C 3738 R / 3 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255
C 3725 R / 4 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255
C 3728 R / 4 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255
C 3738 R / 4 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255
C 3731 R / 4 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255
C 3735 R / 4 8 UDG / YDG	855	695	150	142	373	192	380	511	42	36	66	287	783	610	1050	341	255

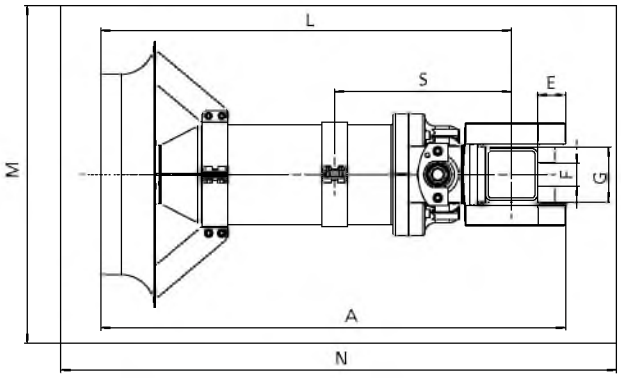
31) Incl. 10-metre power cable and guide bracket
32) z = number of blades

Amamix 400, 400 V, 50 Hz, n = 700 rpm, material variant C - version with jet ring

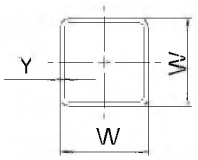




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

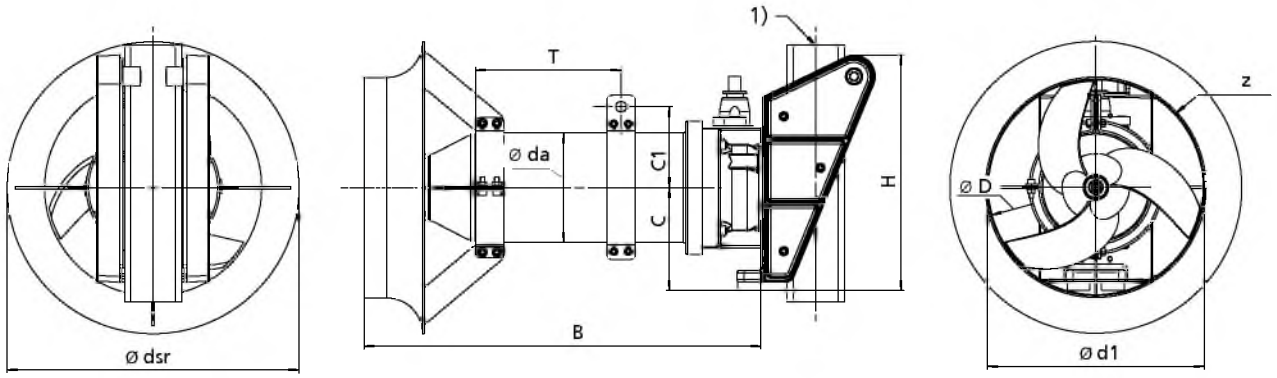
Size	P_2 [kW]	[kg][33]	z[34]	Guide rail	
				W [mm]	Y [mm]
C 3725 R / 3 8 UDC / YDC	2,5	89,3	2	60	3
C 3728 R / 3 8 UDC / YDC	2,5	89,3	2	60	3
C 3731 R / 3 8 UDC / YDC	2,5	89,3	3	60	3
C 3738 R / 3 8 UDC / YDC	2,5	89,3	3	60	3
C 3725 R / 4 8 UDC / YDC	4	89,3	2	60	3
C 3728 R / 4 8 UDC / YDC	4	89,3	2	60	3
C 3738 R / 4 8 UDC / YDC	4	89,3	3	60	3
C 3731 R / 4 8 UDC / YDC	4	89,3	3	60	3
C 3735 R / 4 8 UDC / YDC	4	89,3	3	60	3

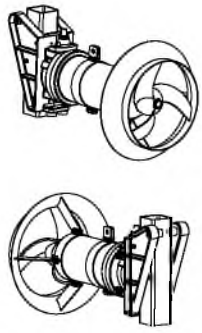
Dimensions [mm]

Size	A	B	C	C1	Ø D	Ø da	Ø d1	Ø dsr	E	F	G	H	L	M	N	S	T
C 3725 R / 3 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255
C 3728 R / 3 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255
C 3731 R / 3 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255
C 3738 R / 3 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255
C 3725 R / 4 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255
C 3728 R / 4 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255
C 3738 R / 4 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255
C 3731 R / 4 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255
C 3735 R / 4 8 UDC / YDC	855	695	150	139	373	186	380	511	42	36	66	287	783	610	1050	338	255

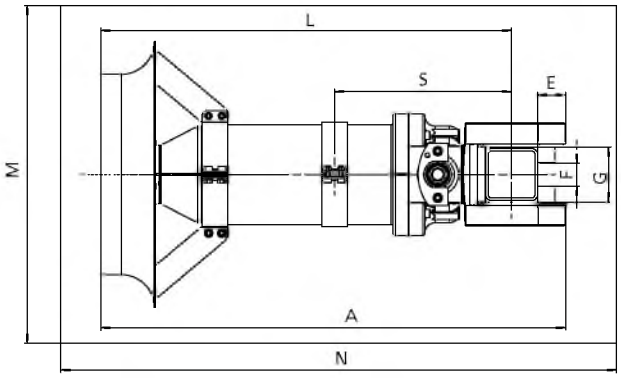
33) Incl. 10-metre power cable and guide bracket
34) z = number of blades

Amamix 600, 400 V, 50 Hz, n = 475 rpm, material variant G - version with jet ring

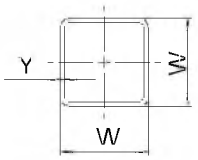




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

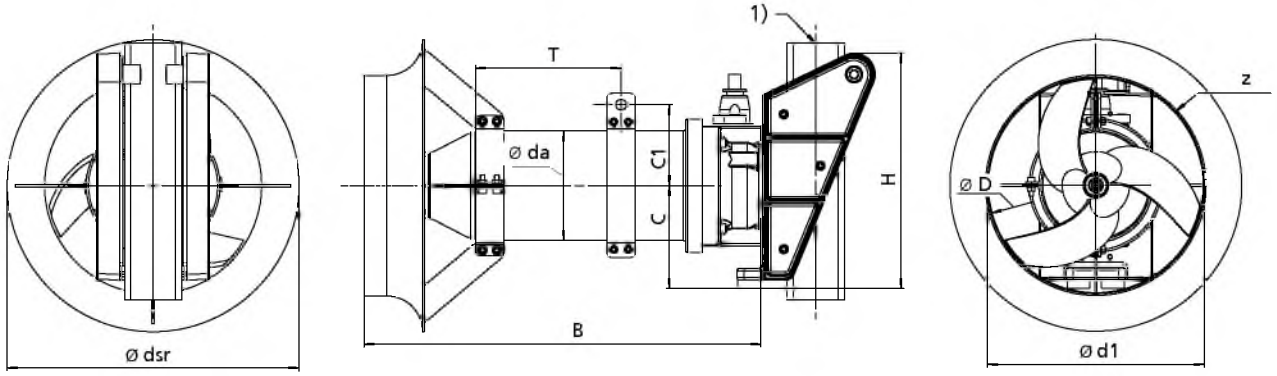
Size	P_2 [kW]	[kg][35]	z[36]	Guide rail	
				W [mm]	Y [mm]
C 5725 R / 6 12 UDG / YDG	5	240,5	2	100	5
C 5728 R / 6 12 UDG / YDG	5	240,5	2	100	5
C 5731 R / 6 12 UDG / YDG	5	240,5	3	100	5
C 5738 R / 6 12 UDG / YDG	5	240,5	3	100	5
C 5725 R / 10 12 UDG / YDG	10	254,5	2	100	5
C 5728 R / 10 12 UDG / YDG	10	254,5	2	100	5
C 5738 R / 10 12 UDG / YDG	10	254,5	3	100	5
C 5731 R / 10 12 UDG / YDG	10	254,5	3	100	5
C 5735 R / 10 12 UDG / YDG	10	254,5	3	100	5

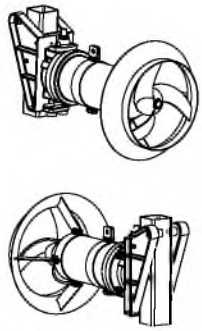
Dimensions [mm]

Size	A	B	C	C1	Ø D	Ø da	Ø d1	Ø dsr	E	F	G	H	L	M	N	S	T
C 5725 R / 6 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270
C 5728 R / 6 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270
C 5731 R / 6 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270
C 5738 R / 6 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270
C 5725 R / 10 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270
C 5728 R / 10 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270
C 5738 R / 10 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270
C 5731 R / 10 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270
C 5735 R / 10 12 UDG / YDG	1048	854	230	197	570	294	580	773	54	44	106	507	953	875	1335	403	270

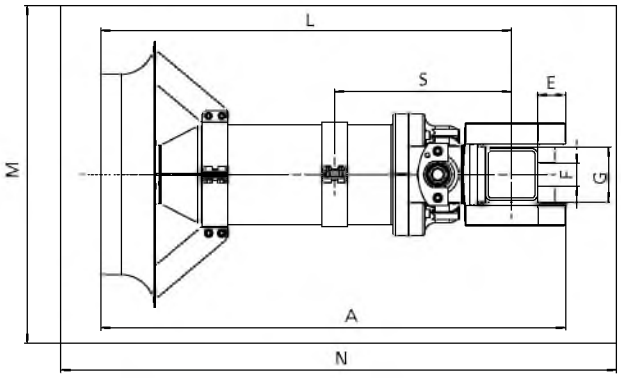
35) Incl. 10-metre power cable and guide bracket
36) z = number of blades

Amamix 600, 400 V, 50 Hz, n = 475 rpm, material variant C - version with jet ring

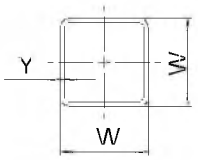




Minimum dimensions of access opening



Guide rail



1) = guide rail

Technical data

Size	P_2 [kW]	[kg][37]	z[38]	Guide rail	
				W [mm]	Y [mm]
C 5725 R / 4 12 UMC / YMC	5	165,5	2	100	5
C 5728 R / 4 12 UMC / YMC	5	165,5	2	100	5
C 5731 R / 4 12 UMC / YMC	5	165,5	3	100	5
C 5738 R / 4 12 UMC / YMC	5	165,5	3	100	5
C 5725 R / 8 12 UMC / YMC	10	217,5	2	100	5
C 5728 R / 8 12 UMC / YMC	10	217,5	2	100	5
C 5738 R / 8 12 UMC / YMC	10	217,5	3	100	5
C 5731 R / 8 12 UMC / YMC	10	217,5	3	100	5
C 5735 R / 8 12 UMC / YMC	10	217,5	3	100	5

Dimensions [mm]

Size	A	B	C	C1	Ø D	Ø da	Ø d1	Ø dsr	E	F	G	H	L	M	N	S	T
C 5725 R / 4 12 UMC / YMC	1016	830	215	176	570	251	580	773	43	44	106	420	908	890	1290	380	250
C 5728 R / 4 12 UMC / YMC	1016	830	215	176	570	251	580	773	43	44	106	420	908	890	1290	380	250
C 5731 R / 4 12 UMC / YMC	1016	830	215	176	570	251	580	773	43	44	106	420	908	890	1290	380	250
C 5738 R / 4 12 UMC / YMC	1016	830	215	176	570	251	580	773	43	44	106	420	908	890	1290	380	250
C 5725 R/ 8 12 UMC / YMC	1137	950	215	176	570	251	580	773	43	44	106	420	1028	890	1410	445	310
C 5728 R / 8 12 UMC / YMC	1137	950	215	176	570	251	580	773	43	44	106	420	1028	890	1410	445	310
C 5738 R / 8 12 UMC / YMC	1137	950	215	176	570	251	580	773	43	44	106	420	1028	890	1410	445	310
C 5731 R / 8 12 UMC / YMC	1137	950	215	176	570	251	580	773	43	44	106	420	1028	890	1410	445	310
C 5735 R / 8 12 UMC / YMC	1137	950	215	176	570	251	580	773	43	44	106	420	1028	890	1410	445	310

37) Incl. 10-metre power cable and guide bracket
38) z = number of blades

Scope of supply

Depending on the model, the following items are included in the scope of supply:

- Submersible mixer with supporting clamp
- Cable support for properly routing the power cable
- Two shackles (for lifting tackle and cable support)
- Separate name plate

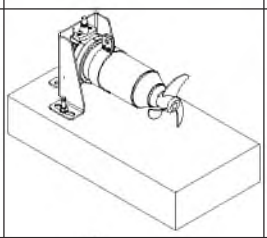
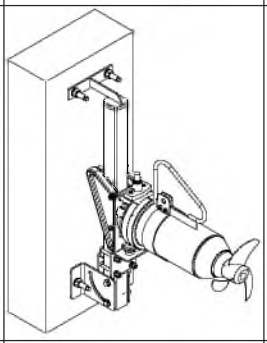
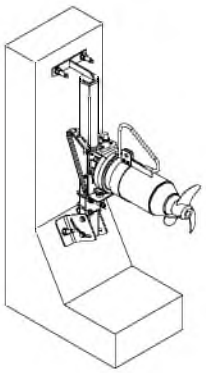
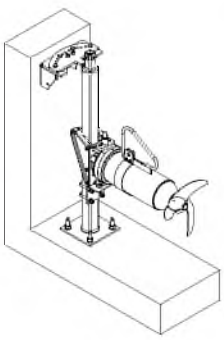
Accessories

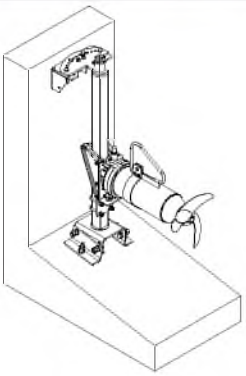
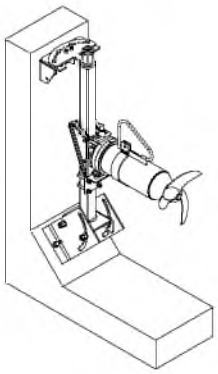
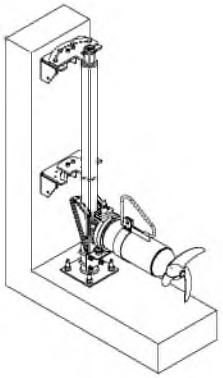
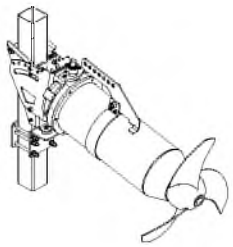
- Submersible mixer stand
- Pitch adapter
- Bail
- Hook
- Lifting rope
- Cable support for properly routing the power cables
- Forcing screw
- Other accessories on request

Accessories

Overview of accessories

Overview of accessories

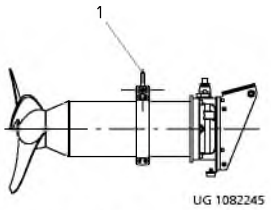
Accessories	Amamix				Illustration	Description
	200	300	400	600		
Accessories set 4 (⇨ Page 33)	✗	✗	✗	✗		▪ Lifting devices and lifting tackle
Accessories set 6 Floor mounting (⇨ Page 35)	✗	✗	-	-		▪ With horizontal swivelling option ▪ Fixed vertical installation height ▪ Condition: Place of installation is accessible (e.g. stormwater relief structures)
Accessories set 7 Mounting on sump/tank wall (⇨ Page 37)	✗	✗	-	-		▪ Continuously adjustable installation depth with fixed jet direction. The submersible mixer can be lifted out of the tank or sump for maintenance and inspection work.
Accessories set 7 Mounting on benching and sump/tank wall (⇨ Page 37)	✗	✗	-	-		▪ Special feature: continuously adjustable installation depth and adjustable jet direction. The submersible mixer can be lifted out of the tank or sump for maintenance and inspection work.
Accessories set 22 Mounting on the sump/tank wall and horizontal tank floor (inclined by 0 - 0.5°) (⇨ Page 42)	✗	✗	✗	✗		▪ Special feature: continuously adjustable installation depth and adjustable jet direction. The submersible mixer can be lifted out of the tank or sump for maintenance and inspection work.

Accessories	Amamix				Illustration	Description
	200	300	400	600		
Accessories set 22 Mounting on the sump/tank wall and sloping tank floor (inclined by 0.5 - 10°) (⇨ Page 45)	✗	✗	✗	✗		▪ Special feature: continuously adjustable installation depth and adjustable jet direction. The submersible mixer can be lifted out of the tank or sump for maintenance and inspection work.
Accessories set 22 Mounting on the sump/tank wall and on the inclined tank floor or on the sump/tank wall (inclined by 10 - 90°) (⇨ Page 49)	✗	✗	✗	✗		▪ Special feature: continuously adjustable installation depth and adjustable jet direction. The submersible mixer can be lifted out of the tank or sump for maintenance and inspection work.
Accessories set 22 **Accessories set 22 - options** with middle support for guide rail (⇨ Page 53)	✗	✗	✗	✗		▪ For installation depths > 6 m
Accessories set 22 **Accessories set 22 - options** Pitch adapter (⇨ Page 56)	✗	✗	✗	✗		▪ For upward or downward pitch adjustment in increments of 10° from 40° upwards to 40° downwards (Amamix 600 G: 15° or 30° upward or downward pitch)
Forcing screws (⇨ Page 63)	✗	✗	✗	✗		
Guide rails for accessories sets 7 and 22 (⇨ Page 64)	✗	✗	✗	✗		
Wear-resistant adapter (⇨ Page 64)	-	✗	✗	✗		
Other accessories (⇨ Page 65)	✗	✗	✗	✗		
Lifting equipment	✗	✗	✗	✗		▪ See type series booklet "KSB Lifting Equipment" 1596.5

Accessories set 4

Overview of range

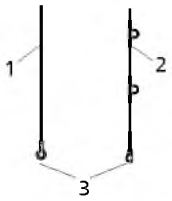
Lifting tackle



Lifting tackle

1	Attachment point (centre-of-gravity position)[39]

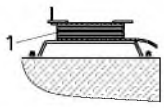
Lifting ropes



Lifting rope

1	Lifting rope made of 1.4401 or
2	Lifting rope made of PP
3	Attachment point on submersible mixer

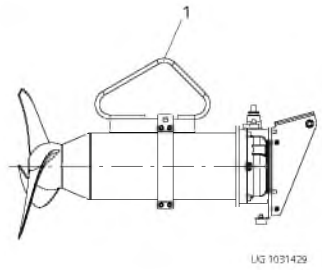
Rope winder/bollard



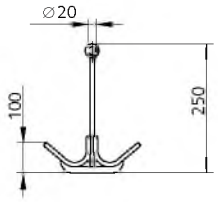
1	Rope winder

Alternative combination: bail on submersible mixer / lifting hook on lifting rope of lifting equipment

Bail



Lifting hook



1 Bail

Overview of accessories set 4: lifting devices and lifting tackle

Description		Amamix								Material	Mat. No.	[kg]
		200		300		400		600				
		G	C	G	C	G	C	G	C			
Lifting rope for Haacon cranes[40]	∅ = 5 mm, L = 12 m	✗	✗	✗	✗	✗	✗	✗	✗	1.4401	11304621	1.95
	∅ = 5 mm, L = 18 m	✗	✗	✗	✗	✗	✗	✗	✗	1.4401	11306713	2.7

39) Shackle included in scope of supply

Description		Amamix								Material	Mat. No.	[kg]
		200		300		400		600				
		G	C	G	C	G	C	G	C			
	∅ = 5 mm, L = 22 m	✗	✗	✗	✗	✗	✗	✗	✗	1.4401	11306712	3.2
Lifting rope, max. load-carrying capacity 200 kg, 5 m; material: polypropylene[41)]		Select in acc. with mixer weight								PP	11185207	2
Lifting rope, max. load-carrying capacity 450 kg, 5 m; material: polypropylene[41)]										PP	11190024	5
Rope winder/bollard for Haacon cranes for securing the lifting ropes at the tank edge or railing										1.4571	19554260	1.5
Lifting hook, max. load-carrying capacity 500 kg		✗	✗	✗	✗	✗	✗	✗	✗	1.4301	19219613	2.44
Bail for fitting to the lifting lug		✗	✗	-	-	-	-	-	-	1.4571	19219830	1.6
		-	-	✗	✗	✗	✗	-	-	1.4571	19219831	2.1
		-	-	-	-	-	-	✗	✗	1.4571	19219832	2.6

More information

- See type series booklet "KSB Lifting Equipment" 1596.5

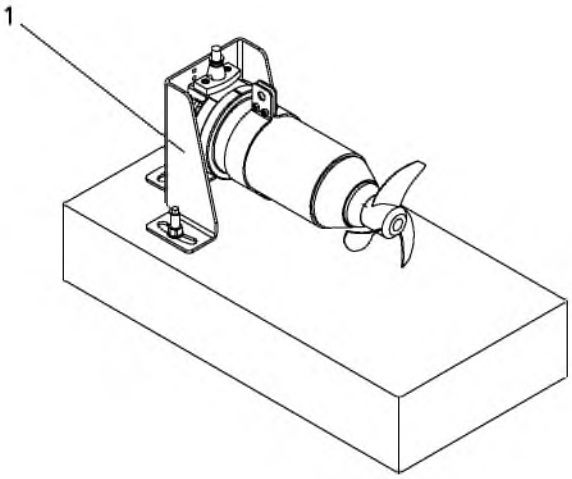
40) The lifting rope must be attached to the attachment point on the submersible mixer and can be fastened on the winch of the cranes indicated. When transportable cranes are used, the upper end of the rope is removed from the winch and tied securely around the rope winder. The lower end remains attached to the submersible mixer.

41) Use several 5-metre ropes connected via spliced loops for large installation depths.

Accessories set 6

Overview of range

For **permanent mounting of the submersible mixer on the tank floor**.



Installation using accessories set 6: permanent mounting of submersible mixer on tank floor

1	Submersible mixer stand

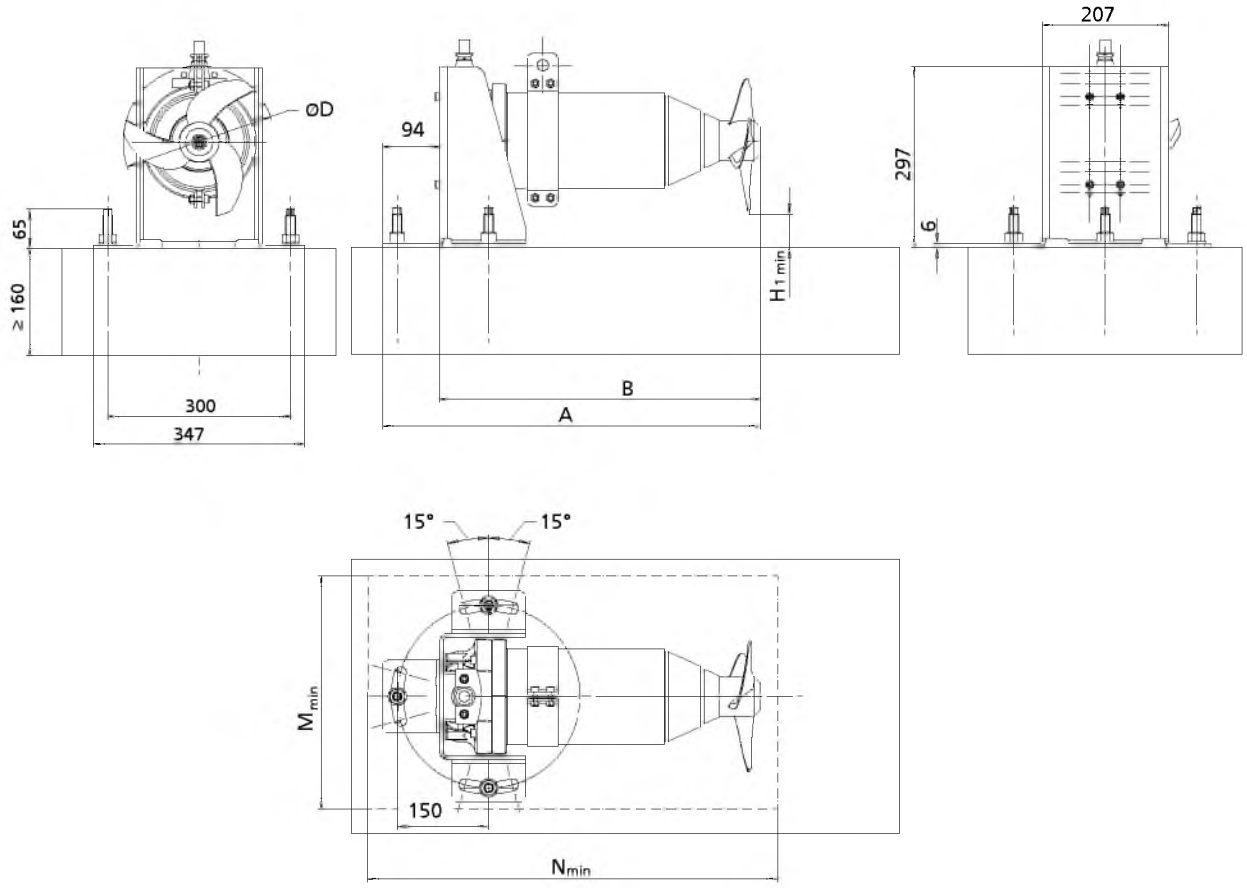
Overview of accessories set 6

Description	Amamix				Material	Mat. No.	[kg]
	200	300	400	600			
Submersible mixer stand (for use in tanks which can be drained to provide access to the submersible mixer, e.g. for maintenance and inspection purposes, e.g. stormwater relief structures) incl. 3 chemical anchors for mounting the submersible mixer stand on the tank floor, min. concrete quality C25/30	✗	✗	–[42)]	–[42)]	1.4301	01109062	8
					1.4571	19556921	8

42) On request

Installation of accessories set 6 - Amamix 200 / 300

For permanent **mounting on the tank floor**
(sizes 400 and 600 on request)



Installation with accessories set 6 - Amamix 200 / 300

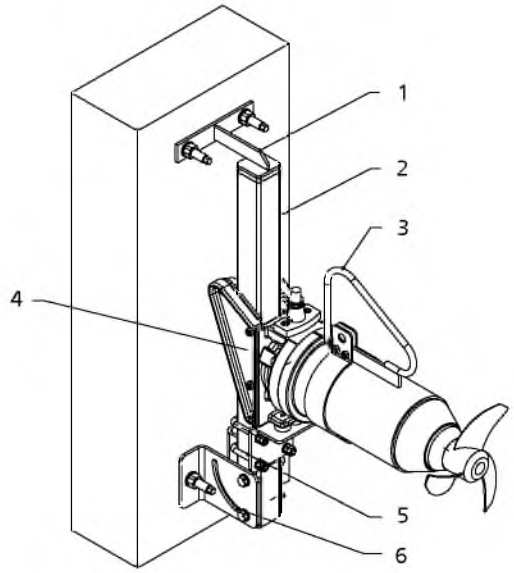
Dimensions [mm]

Ø D	$H_{1\,min}$	A	B	M_{min}	N_{min}
200	48,5	560	466	400	610
300	50	694	600	400	750

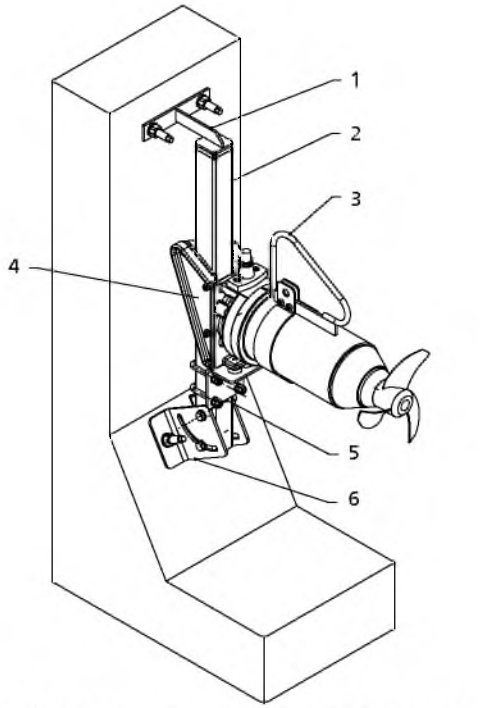
Accessories set 7

Overview of range

For **mounting at the top of the tank wall and at the bottom of the tank wall/benching**, level-adjustable.



Installation example: mounted on the tank wall



Installation example: mounted on the benching

1	Upper holder	4	Guide bracket for guide rail
2	Guide rail[43)]	5	Retaining bracket for guide rail
3	Bail (optional)	6	Lower holder

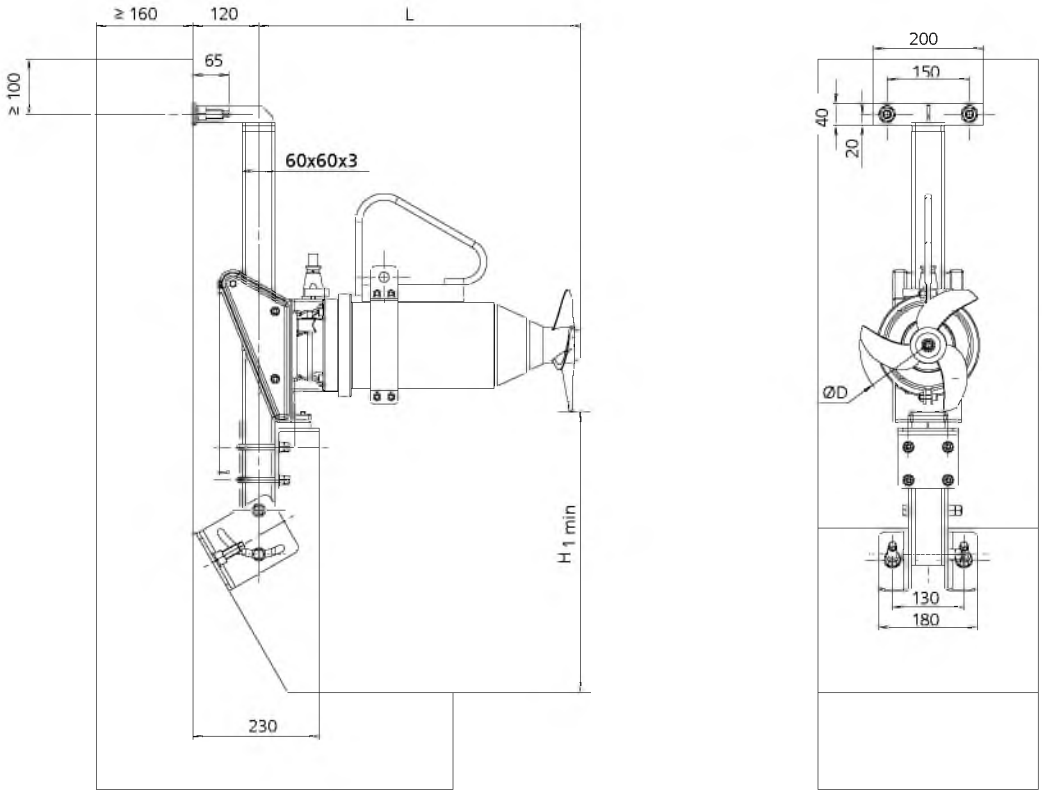
Overview of accessories set 7: mounting at the tank wall or on the benching

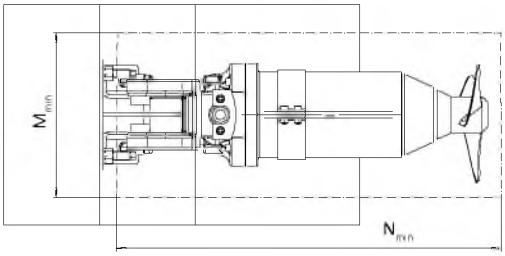
Description	Amamix				Material	Mat. No.	[kg]
	200		300				
	G	C	G	C			
Upper holder for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	1.4301	01109095	1.5
Upper holder for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	1.4571	01103807	1.5
Guide rail	(⇨ Page 64)						
Guide bracket for guide rail 60 x 60 x 3 mm [44)]	✗	-	✗	-	EN-GJL-250	19203139	6.83
Guide bracket for guide rail 60 x 60 x 3 mm	-	✗	-	✗	1.4571	19202241	3.4
Retaining bracket for guide rail 60 x 60 x 3 mm [45)]	✗	✗	✗	✗	1.4571	19202369	1.5
Retaining bracket for guide rail 60 x 60 x 3 mm [45)]	✗	✗	✗	✗	1.4301	01109104	1.5
Lower holder for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	1.4301	01109097	2.8
Lower holder for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	1.4571	01103809	2.8

43) Not included in KSB's general scope of supply
44) Optional: guide bracket for guide rail 60 x 60 x 3 mm made of 1.4571 (19202241)
45) The materials of the retaining bracket and of the guide rail are usually identical.

Installation of accessories set 7 - Amamix 200 / 300

For **mounting at the top of the tank wall and on the benching,** level-adjustable.





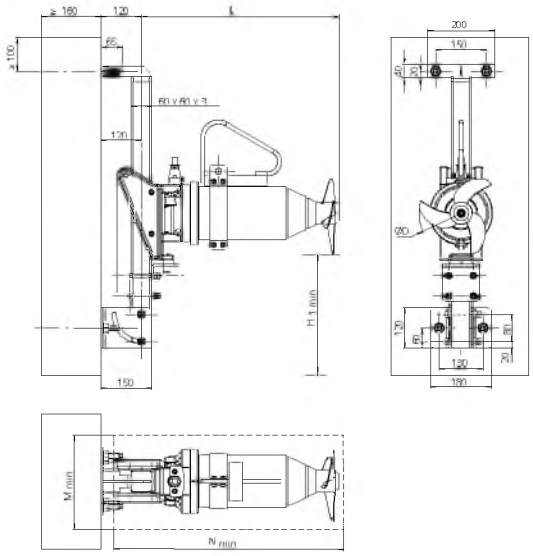
Installation with accessories set 7 - Amamix 200 / 300

Dimensions [mm]

Ø D	Motor housing material	H_1	L	M_{min}	N_{min}
200	G	120	524	275	700
200	C	120	520	275	700
300	G	150	659	375	830
300	C	150	655	375	830

Installation of accessories set 7 - Amamix 200 / 300

For **mounting at the top and bottom of the tank wall,**
level-adjustable.



Installation of accessories set 7 - Amamix 200 / 300

Dimensions [mm]

Ø D	Motor housing material	H_1	L	M_{min}	N_{min}
200	G	120	524	275	700
200	C	120	520	275	700
300	G	150	659	375	830
300	C	150	655	375	830

Accessories set 22

Accessories set 22 comprises the upper guide rail holder, the guide rail, the retaining bracket and the lower guide rail holder.

Guide rails

The cross-section of the guide rail depends on the mixer size:

Overview of guide rails

Amamix	Guide rail cross-section	
	60 × 60 × 3 mm	100 × 100 × 5 mm
200	✗	-
300	✗	-
400	✗	✗
600	-	✗

The guide rail can be supplied either by KSB or the customer/ operator.

Overview of guide rails


Guide rail 60 x 60 x 3 mm


Guide rail 100 x 100 x 5 mm

Upper holder

The upper holder is identical for all installation variants (installation on horizontal, sloping or inclined floor). Two designs are available:

Overview of upper holders


For guide rail 60 x 60 x 3 mm
For guide rail 100 x 100 x 5 mm

Lower holder

Different types of lower holders are available to match individual tank floor designs.

Overview of lower holders


For horizontal tank floors


For sloping tank floors (slope of 0.5° .... 10°)


For inclined tank floors (inclination of 10° .... 90°) or wall mounting

Retaining bracket

The retaining bracket is mounted on the guide rail and serves as a bottom stop for the submersible mixer. Retaining brackets are available for guide rails 60 x 60 x 3 mm and 100 x 100 x 5 mm.

Overview of retaining brackets


For guide rail 60 x 60 x 3 mm


For guide rail 100 x 100 x 5 mm

Guide bracket for guide rail

The guide bracket is bolted to the motor housing cover of the submersible mixer and serves to guide the submersible mixer along the guide rail. Any forces generated by the submersible mixer, such as the reactive force to the propeller's axial thrust, the motor torque and any lateral forces are transferred into the guide rail via the guide bracket and thus safely dissipated into the foundation (tank wall and floor). The upper holder provides a mixer swivelling option around the guide rail axis of up to 45° towards both sides.

Overview of guide brackets for the guide rail


For guide rail 60 x 60 x 3 mm, material variant G


For guide rail 60 x 60 x 3 mm, material variant C


For guide rail 100 x 100 x 5 mm, material variant G


For guide rail 100 x 100 x 5 mm, material variant C

Pitch adapter

The pitch adapter is fitted between the motor housing cover of the submersible mixer and the guide bracket. By fitting a pitch adapter, the jet pitch can be adjusted either upwards or downwards from the standard horizontal installation position.

Overview of pitch adapters

For all sizes except Amamix 600 G[46)]

15°-pitch adapter for Amamix 600 G[47)]

30°-pitch adapter for Amamix 600 G[48)]

Middle support

For installation depths > 6 m a middle support is required for the guide rail; this may also be useful for lower installation depths depending on tank design and flow conditions.

Overview of middle supports

For guide rail 60 x 60 x 3 mm

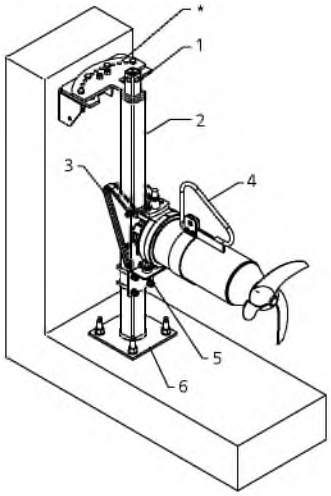
For guide rail 100 x 100 x 5 mm

46) Pitch can be adjusted through a range of +/- 40°, depending on the mixer size.
47) Allows only fixed angles of 15°, jet direction (upward or downward) must be specified in the purchase order.
48) Allows only fixed angles of 30°, jet direction (upward or downward) must be specified in the purchase order.

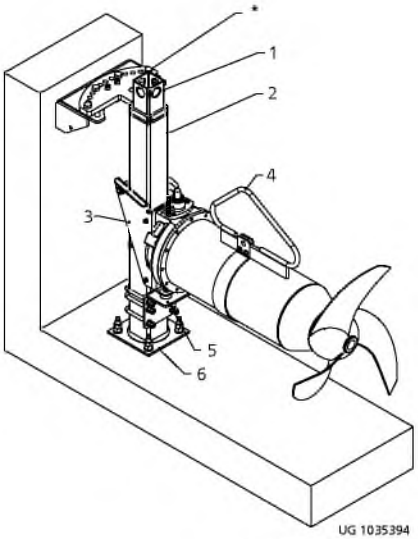
For mounting on the tank wall and horizontal tank floor

Overview of range

Installation using accessories set 22: mounting on the tank wall and horizontal tank floor



Amamix 200, 300, 400



Amamix 400, 600

*	Swivelling option through 45° to the left and right around the guide rail axis (in increments of 7.5°)	4	Bail (optional)
1	Upper holder	5	Retaining bracket for guide rail
2	Guide rail[49)]	6	Lower holder
3	Guide bracket for guide rail		

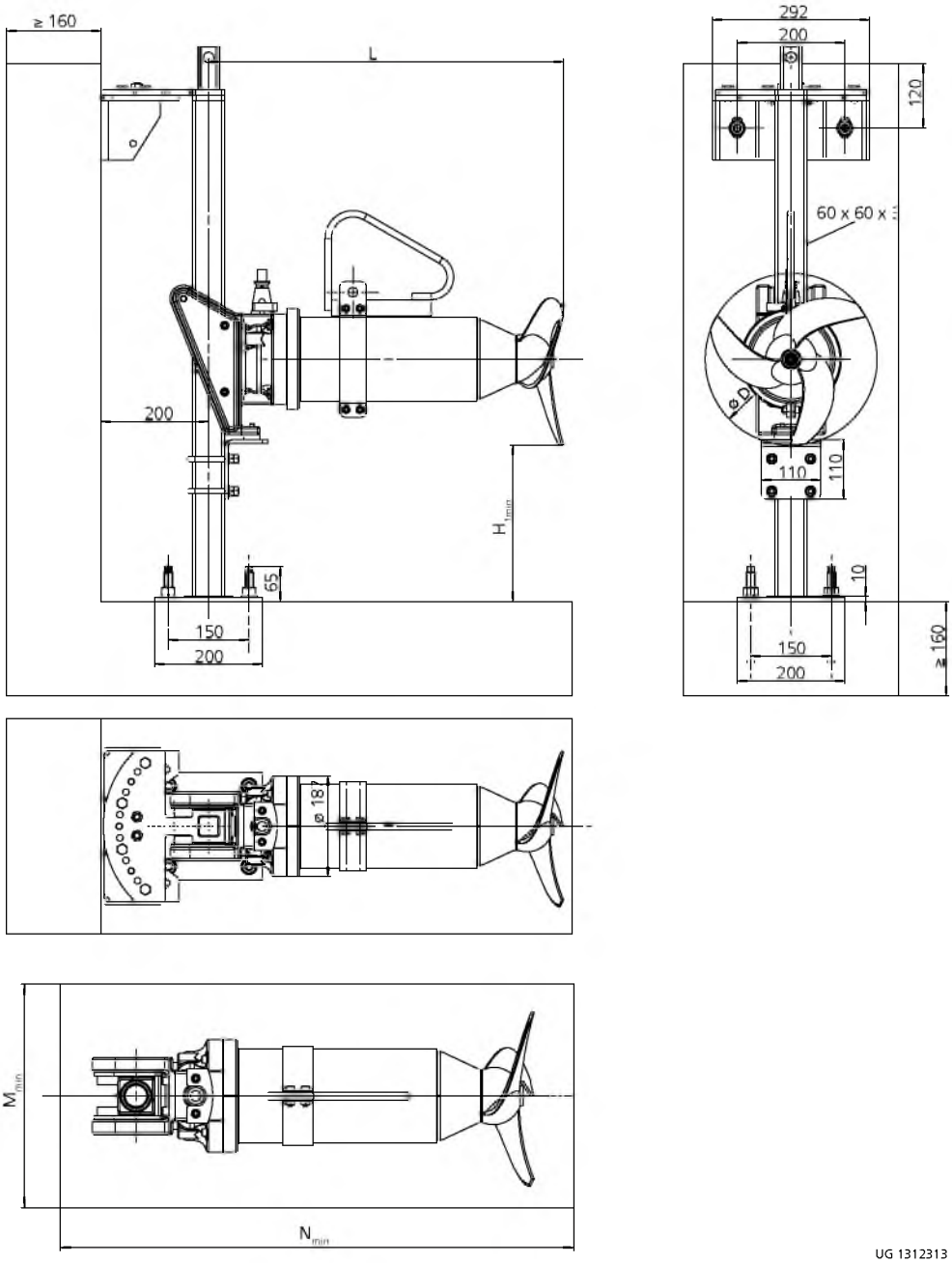
Overview of standard accessories set 22: mounting on the tank wall and horizontal tank floor

Description	Amamix								Material	Mat. No.	[kg]
	200		300		400		600				
	G	C	G	C	G	C	G	C			
Upper holder for guide rail 60 x 60 x 3 mm, incl. 2 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4301	01306260	8.9
Upper holder for guide rail 60 x 60 x 3 mm, incl. 2 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4571	01306261	8.9
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4301	01313458	23.23
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4571	01313459	23.23
Guide rail	(⇨ Page 64)										
Guide bracket for guide rail 60 x 60 x 3 mm [50)]	✗	-	✗	-	-	-	-	-	EN-GJL-250	19203139	6.83
Guide bracket for guide rail 60 x 60 x 3 mm [51)]	-	-	-	-	✗	-	-	-	EN-GJL-250	01307155	10.5
Guide bracket for guide rail 60 x 60 x 3 mm	-	✗	-	✗	-	-	-	-	1.4571	19202241	3.4
Guide bracket for guide rail 60 x 60 x 3 mm	-	-	-	-	-	✗	-	-	1.4571	01307156	7
Guide bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	-	-	✗	-	EN-GJL-250	19556700	17
Guide bracket for guide rail 100 x 100 x 5 mm [52)]	-	-	-	-	✗	-	-	-	EN-GJL-250	19556701	13
Guide bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	-	✗	-	-	1.4571	19202242	8.79
Retaining bracket for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	✗	✗	-	-	1.4301	01109104	1.5
Retaining bracket for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	✗	✗	-	-	1.4571	19202369	1.5
Retaining bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	✗	✗	✗	✗	1.4301	01129810	3.5
Retaining bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	✗	✗	✗	✗	1.4571	19202370	3.5
Lower holder for guide rail 60 x 60 x 3 mm, incl. 4 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4301	01129858	4.24
Lower holder for guide rail 60 x 60 x 3 mm, incl. 4 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4571	01129859	4.24
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4301	01118892	5.68
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4571	01118903	5.68

49) Not included in KSB's general scope of supply
50) Optional: guide bracket for guide rail 60 x 60 x 3 mm made of 1.4571 (19202241)
51) Optional: guide bracket for guide rail 60 x 60 x 3 mm made of 1.4571 (01307156)
52) Optional: guide bracket for guide rail 100 x 100 x 5 mm made of 1.4571 (19202242)

Installation of accessories set 22 - Amamix 200 / 300 / 400 (except size 4135)

For **mounting at the top of the tank wall and on the tank floor**, level-adjustable and with horizontal swivelling option.



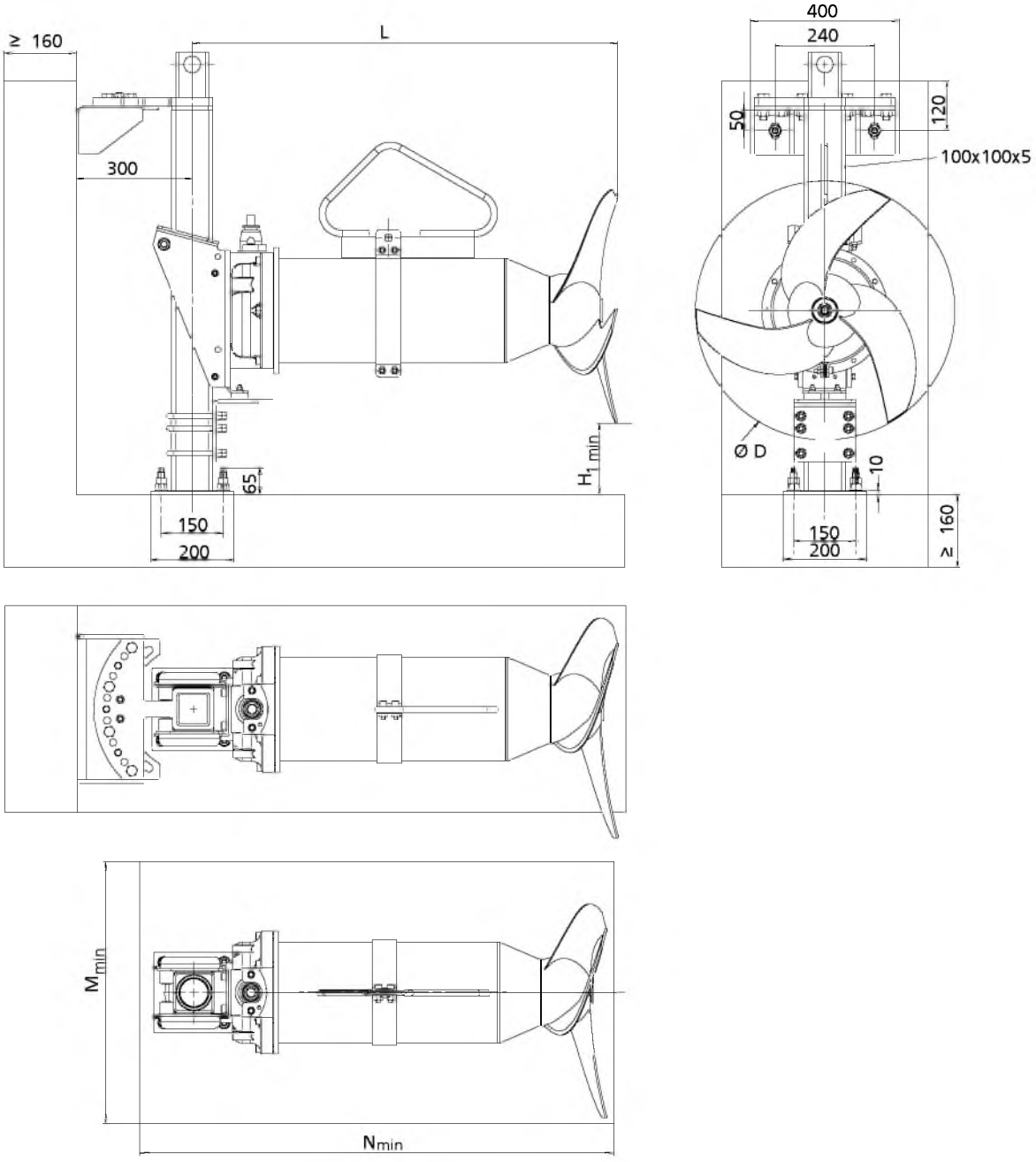
Installation with accessories set 22 - Amamix 200 / 300 / 400 (except size 4135)

Dimensions [mm]

Ø D	Motor housing material	$H_{1\,min}$	L	M_{min}	N_{min}
200	G	120	524	275	780
200	C	120	520	275	780
300	G	150	659	375	910
300	C	150	655	375	910
400	G	200	844	460	1050
400	C	200	844	460	1050

Installation of accessories set 22 - Amamix 400 (size 4135 only) / 600

For **mounting at the top of the tank wall and on a horizontal tank floor**, level-adjustable and with horizontal swivelling option.



Installation with accessories set 22 - Amamix 400 (size 4135 only) / 600

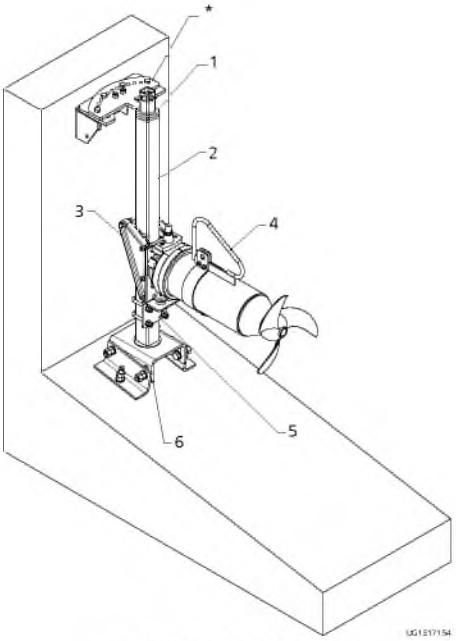
Dimensions [mm]

Ø D	Motor housing material	$H_{1\,min}$	L_{max}	M_{min}	N_{min}
400	G	205	783	460	1150
400	C	205	780	460	1150
600	G	315	949	700	1310
600	C	315	949	700	1390

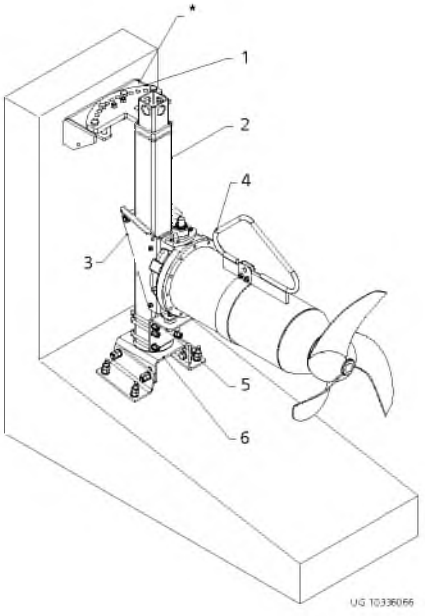
For mounting on the tank wall and on a sloping tank floor (0.5° - 10°)

Overview of range

Installation using accessories set 22: mounting on the tank wall and on a sloping tank floor (0.5° ... 10°)



Amamix 200, 300, 400



Amamix 400, 600

*	Swivelling option through 45° to the left and right around the guide rail axis (in increments of 7.5°)	4	Bail (optional)
1	Upper holder	5	Retaining bracket for guide rail
2	Guide rail[53)]	6	Lower holder
3	Guide bracket for guide rail		

Overview of standard accessories set 22: mounting on the tank wall and on a sloping tank floor (0.5° ... 10°)

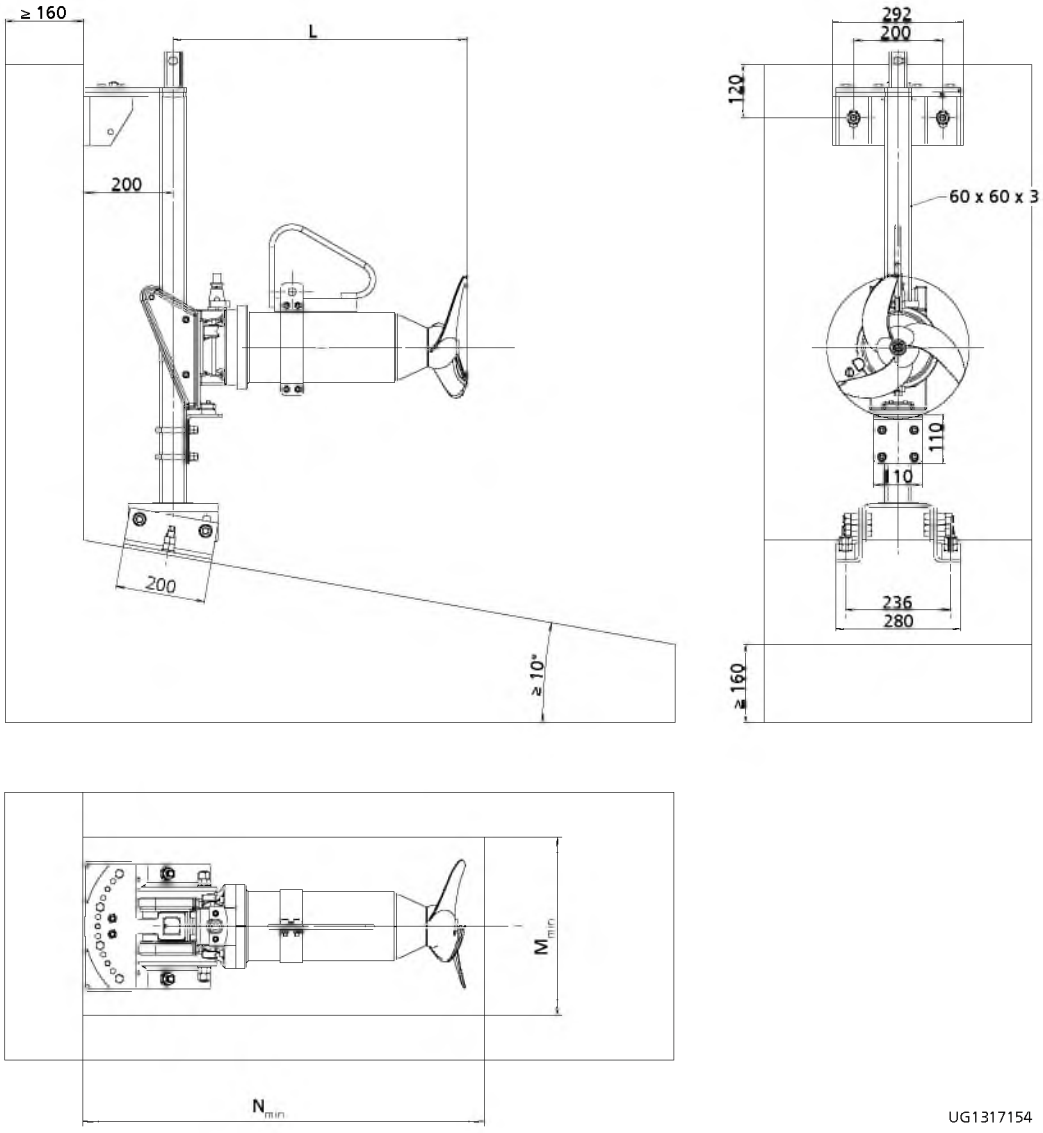
Description	Amamix								Material	Mat. No.	[kg]
	200		300		400		600				
	G	C	G	C	G	C	G	C			
Upper holder for guide rail 60 x 60 x 3 mm, incl. 2 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4301	01306260	8.9
Upper holder for guide rail 60 x 60 x 3 mm, incl. 2 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4571	01306261	8.9
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4301	01313458	23.23
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4571	01313459	23.23
Guide rail	(⇨ Page 64)										
Guide bracket for guide rail 60 x 60 x 3 mm [54)]	✗	-	✗	-	-	-	-	-	EN-GJL-250	19203139	6.83
Guide bracket for guide rail 60 x 60 x 3 mm [55)]	-	-	-	-	✗	-	-	-	EN-GJL-250	01307155	10.5
Guide bracket for guide rail 60 x 60 x 3 mm	-	✗	-	✗	-	-	-	-	1.4571	19202241	3.4
Guide bracket for guide rail 60 x 60 x 3 mm	-	-	-	-	-	✗	-	-	1.4571	01307156	7
Guide bracket for guide rail 100 x 100 x 5 mm [56)]	-	-	-	-	-	-	✗	-	EN-GJL-250	19556700	17
Guide bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	✗	-	-	-	EN-GJL-250	19556701	13
Guide bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	-	✗	-	-	1.4571	19202242	8.79
Retaining bracket for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	✗	✗	-	-	1.4301	01109104	1.5
Retaining bracket for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	✗	✗	-	-	1.4571	19202369	1.5
Retaining bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	✗	✗	✗	✗	1.4301	01129810	3.5
Retaining bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	✗	✗	✗	✗	1.4571	19202370	3.5

53) Not included in KSB's general scope of supply
54) Optional: guide bracket for guide rail 60 x 60 x 3 mm made of 1.4571 (19202241)
55) Optional: guide bracket for guide rail 60 x 60 x 3 mm made of 1.4571 (01307156)
56) Optional: guide bracket for guide rail 100 x 100 x 5 mm made of 1.4571 (19202242)

Description	Amamix								Material	Mat. No.	[kg]
	200		300		400		600				
	G	C	G	C	G	C	G	C			
Lower holder for guide rail 60 x 60 x 3 mm, incl. 4 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4301	01129860	9.4
Lower holder for guide rail 60 x 60 x 3 mm, incl. 4 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4571	01129861	9.4
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4301	01118906	11.92
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4571	01118907	11.92

Installation with accessories set 22 - Amamix 200 / 300 / 400

For **mounting at the top of the tank wall and on a sloping tank floor** (0.5° - 10°), level-adjustable and with horizontal swivelling option.



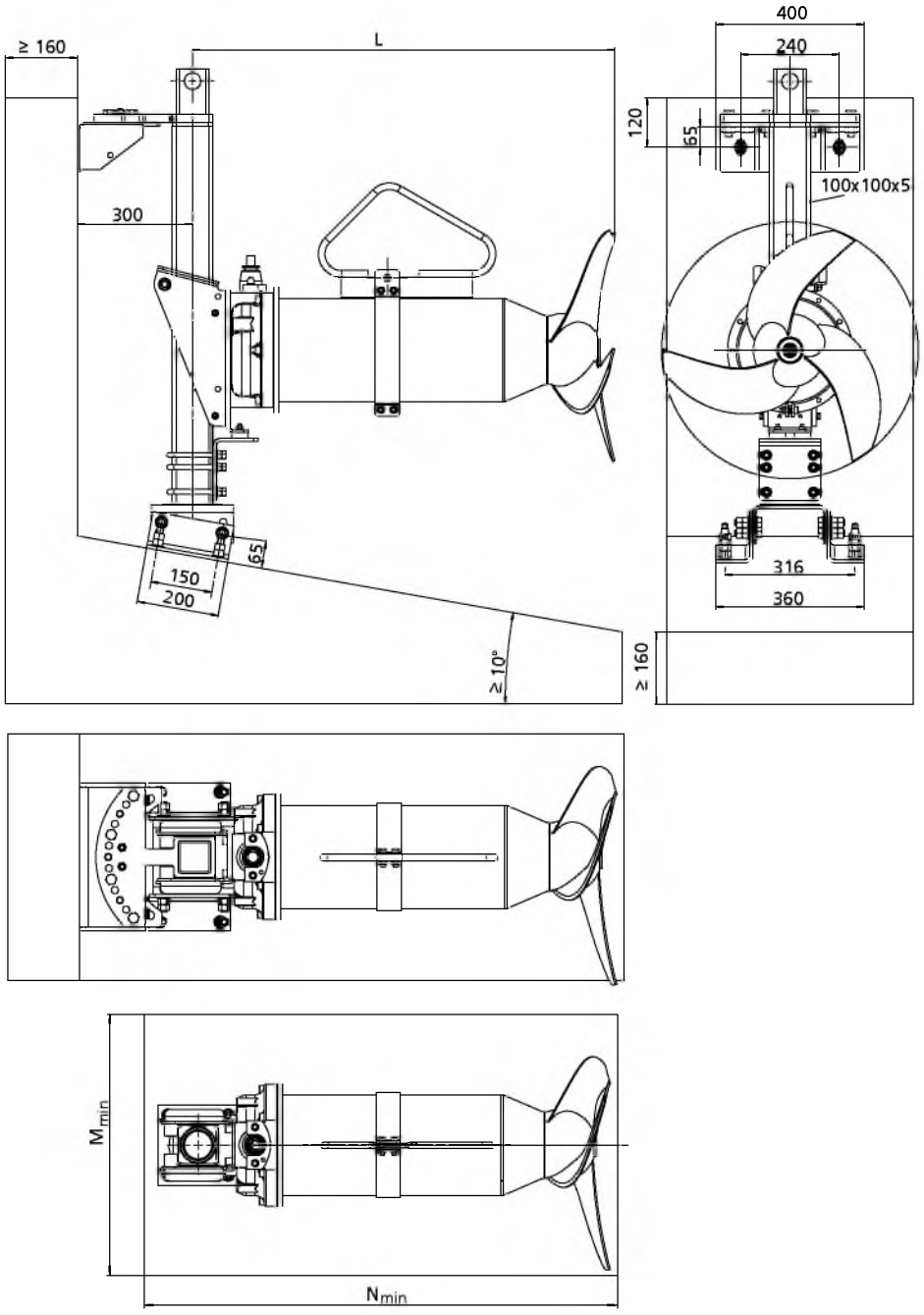
Installation with accessories set 22 - Amamix 200, 300, 400

Dimensions [mm]

Ø D	Motor housing material	L	M_{min}	N_{min}
200	G	524	275	780
200	C	520	275	780
300	G	659	375	910
300	C	655	375	910
400	G	844	460	1050
400	C	844	460	1050

Installation of accessories set 22 - Amamix 400 (size 4135 only) / 600

For **mounting at the top of the tank wall and on a sloping tank floor** (0.5° - 10°), level-adjustable and with horizontal swivelling option.



Installation with accessories set 22 - Amamix 400 (size 4135 only) / 600

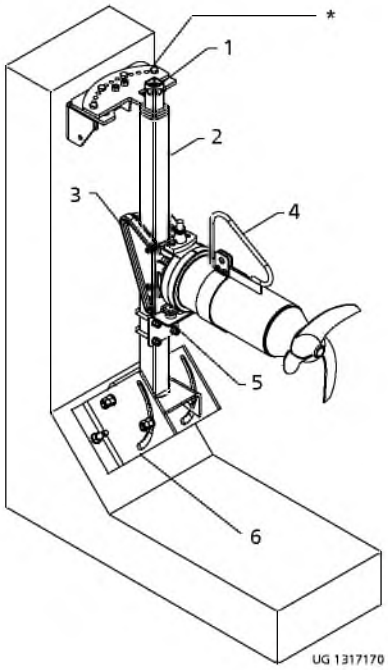
Dimensions [mm]

Ø D	Motor housing material	L	M_{min}	N_{min}
400	G	783	460	1150
400	C	780	460	1150
600	G	949	700	1310
600	C	949	700	1390

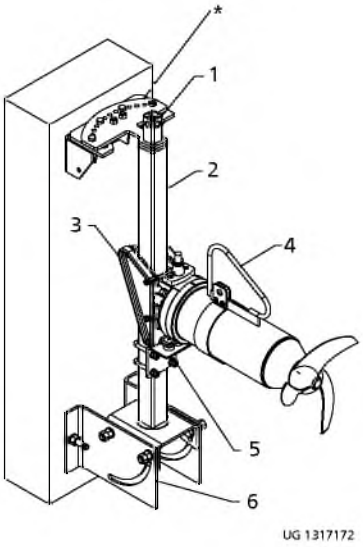
For mounting at the top of the tank wall and at the bottom of the tank wall or on an inclined floor (10° - 90°), level-adjustable and with horizontal swivelling option

Overview of range

Installation with accessories set 22: mounted at the top of the tank wall and at the bottom of the tank wall or on an inclined floor (10° - 90°)



Installation example: mounted on an inclined tank floor (10° - 90°)



Installation example: mounted on the tank wall

*	Swivelling option through 45° to the left and right around the guide rail axis (in increments of 7.5°)	4	Bail (optional)
1	Upper holder	5	Retaining bracket for guide rail
2	Guide rail[57)]	6	Lower holder
3	Guide bracket for guide rail		

Overview of standard accessories set 22: mounted at the top of the tank wall and at the bottom of the tank wall or on an inclined floor (10° - 90°)

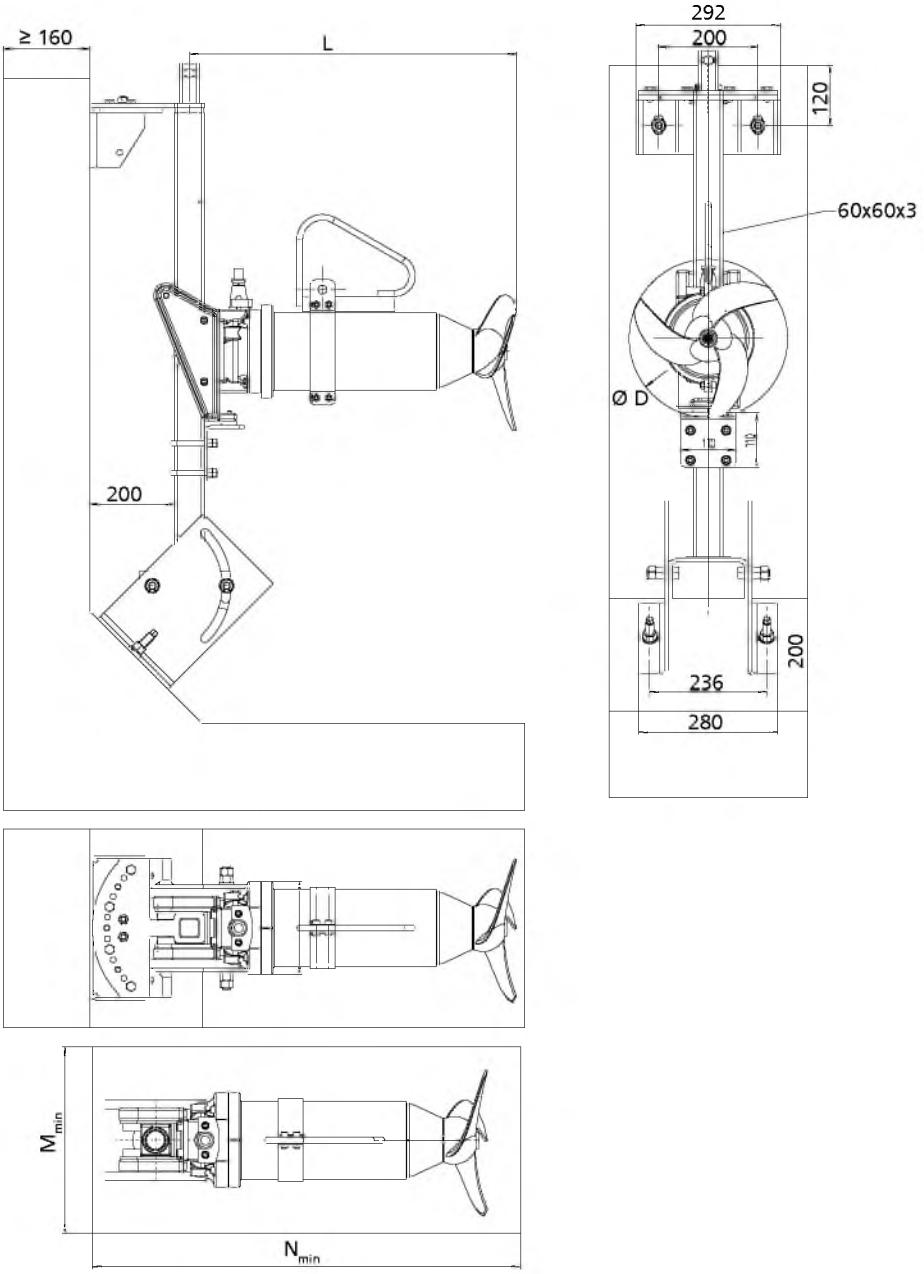
Description	Amamix								Material	Mat. No.	[kg]
	200		300		400		600				
	G	C	G	C	G	C	G	C			
Upper holder for guide rail 60 x 60 x 3 mm, incl. 2 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4301	01306260	8.9
Upper holder for guide rail 60 x 60 x 3 mm, incl. 2 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4571	01306261	8.9
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4301	01313458	23.23
Upper holder for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4571	01313459	23.23
Guide rail	(⇨ Page 64)										
Guide bracket for guide rail 60 x 60 x 3 mm [58)]	✗	-	✗	-	-	-	-	-	EN-GJL-250	19203139	6.83
Guide bracket for guide rail 60 x 60 x 3 mm [59)]	-	-	-	-	✗	-	-	-	EN-GJL-250	01307155	10.5
Guide bracket for guide rail 60 x 60 x 3 mm	-	✗	-	✗	-	-	-	-	1.4571	19202241	3.4
Guide bracket for guide rail 60 x 60 x 3 mm	-	-	-	-	-	✗	-	-	1.4571	01307156	7
Guide bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	-	-	✗	-	EN-GJL-250	19556700	17
Guide bracket for guide rail 100 x 100 x 5 mm [60)]	-	-	-	-	✗	-	-	-	EN-GJL-250	19556701	13
Guide bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	-	✗	-	-	1.4571	19202242	8.79

57) Guide rail 60 x 60 x 3 mm for Amamix 200/300/400 (not included in KSB's general scope of supply)
58) Optional: guide bracket for guide rail 60 x 60 x 3 mm made of 1.4571 (19202241)
59) Optional: guide bracket for guide rail 60 x 60 x 3 mm made of 1.4571 (01307156)
60) Optional: guide bracket for guide rail 100 x 100 x 5 mm made of 1.4571 (19202242)

Description	Amamix								Material	Mat. No.	[kg]
	200		300		400		600				
	G	C	G	C	G	C	G	C			
Retaining bracket for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	✗	✗	-	-	1.4301	01109104	1.5
Retaining bracket for guide rail 60 x 60 x 3 mm	✗	✗	✗	✗	✗	✗	-	-	1.4571	19202369	1.5
Retaining bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	✗	✗	✗	✗	1.4301	01129810	3.5
Retaining bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	✗	✗	✗	✗	1.4571	19202370	3.5
Lower holder for guide rail 60 x 60 x 3 mm, incl. 4 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4301	01129731	13.27
Lower holder for guide rail 60 x 60 x 3 mm, incl. 4 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4571	01129732	13.27
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4301	01314360	26.52
Lower holder for guide rail 100 x 100 x 5 mm, incl. 4 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4571	01314362	26.52

Installation of accessories set 22 - Amamix 200 / 300 / 400 (except size 4135)

For **mounting at the top of the tank wall and at the bottom of the tank wall or on an inclined floor** (10° - 90°), level-adjustable and with horizontal swivelling option.



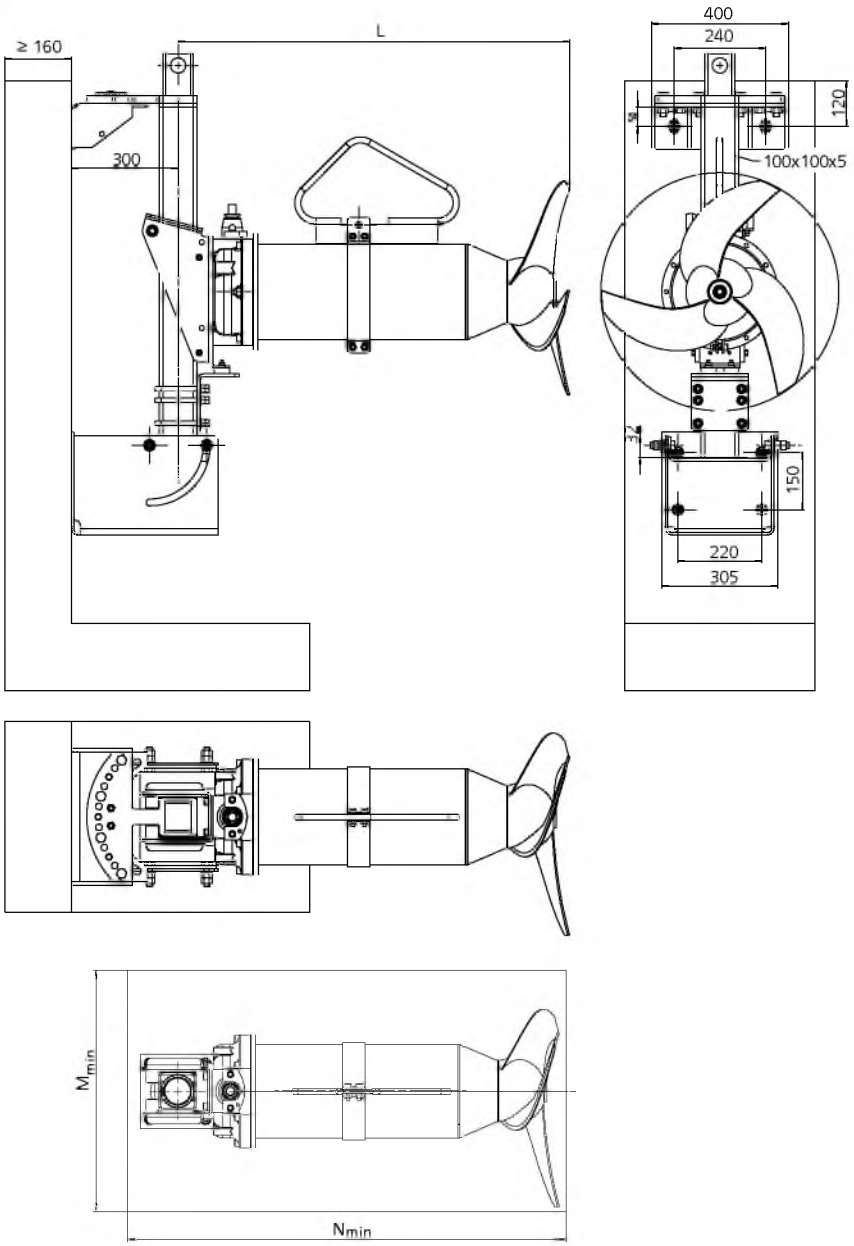
Installation with accessories set 22 - Amamix 200 / 300 / 400 (except size 4135)

Dimensions [mm]

Ø D	Motor housing material	L	M_{min}	N_{min}
200	G	524	275	780
200	C	520	275	780
300	G	659	375	910
300	C	655	375	910
400	G	844	460	1050
400	C	844	460	1050

Installation of accessories set 22 - Amamix 400 (size 4135 only) / 600

For **mounting at the top of the tank wall and at the bottom of the tank wall or on an inclined floor**
(10° - 90°), level-adjustable and with horizontal swivelling option.



Installation with accessories set 22 - Amamix 400 (size 4135 only) / 600

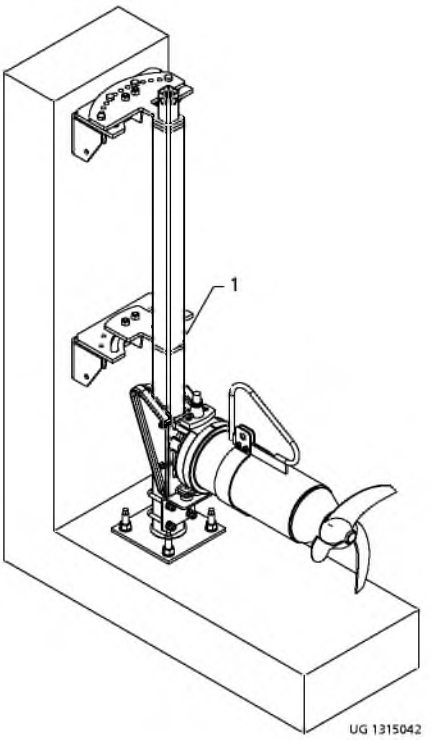
Dimensions [mm]

Ø D	Motor housing material	L	M_{min}	N_{min}
400	G	783	460	1150
400	C	780	460	1150
600	G	949	700	1310
600	C	949	700	1390

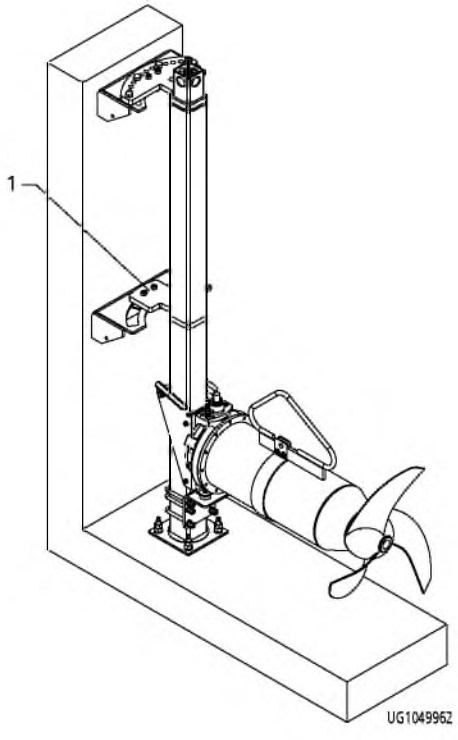
Middle support for 60 x 60 x 3 mm or 100 x 100 x 5 mm guide rail for large installation depths

Overview of range

Installation with accessories set 22: mounted middle support for guide rail



Amamix 200, 300, 400 with guide rail 60 x 60 x 3 mm



Amamix 400, 600 with guide rail 100 x 100 x 5 mm

1	Middle support

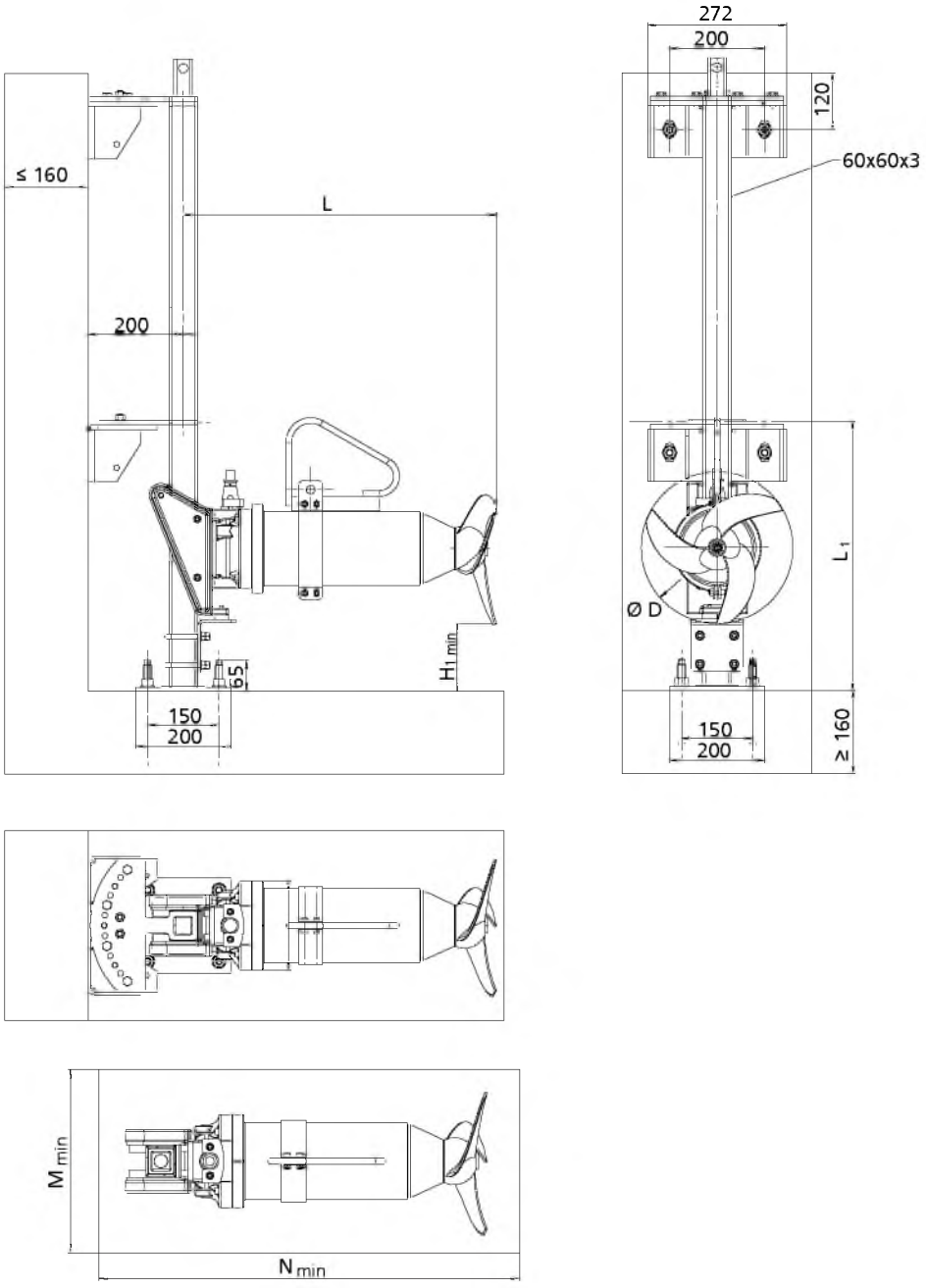
For installation depths > 6 m a middle support for the guide rail must be fitted on the tank wall. Middle supports are not required for installation depths of up to 6 m. However, if the set jet direction and tank wall reflections result in increased forces acting on the guide rail and upper and lower holders, a middle support must be fitted.

Overview of standard accessories set 22: middle support

Description	Amamix								Material	Mat. No.	[kg]
	200		300		400		600				
	G	C	G	C	G	C	G	C			
Middle support for guide rail 60 x 60 x 3 mm, incl. 2 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4301	01306324	7.7
Middle support for guide rail 60 x 60 x 3 mm, incl. 2 chemical anchors	✗	✗	✗	✗	✗	✗	-	-	1.4571	01306325	7.7
Middle support for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4301	01313462	19.26
Middle support for guide rail 100 x 100 x 5 mm, incl. 2 chemical anchors	-	-	-	-	✗	✗	✗	✗	1.4571	01313463	19.26

Installation of accessories set 22 - Amamix 200 / 300 / 400 (except size 4135)

Middle support for guide rail 60 x 60 x 3, for large installation depths.



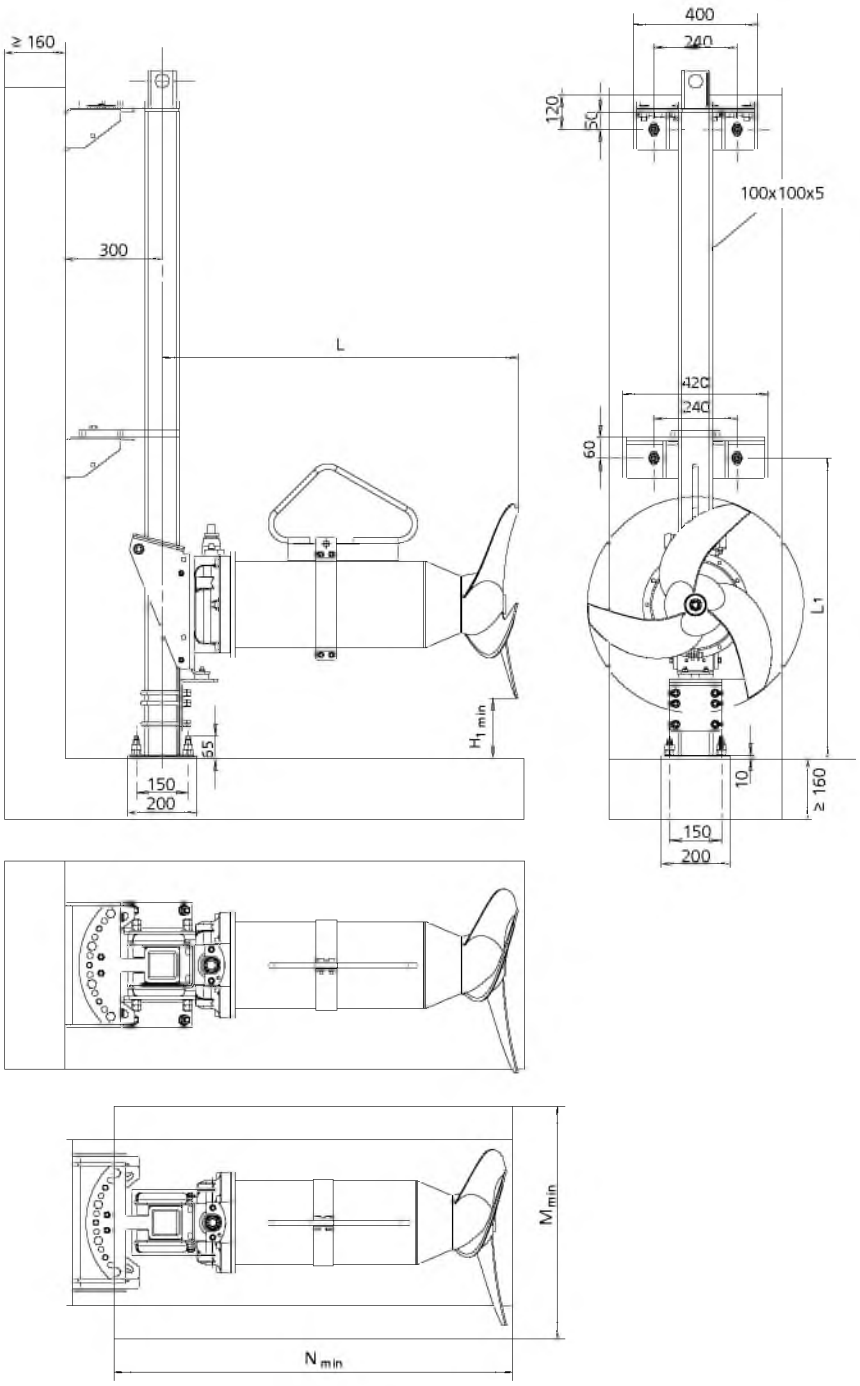
Installation with accessories set 22 - Amamix 200 / 300 / 400 (except size 4135)

Dimensions [mm]

Ø D	Motor housing material	$H_{1\,min}$	L	M_{min}	N_{min}
200	G	120	524	275	780
200	C	120	520	275	780
300	G	150	659	375	910
300	C	150	655	375	910
400	G	200	844	460	1050
400	C	200	844	460	1050

Installation of accessories set 22 - Amamix 400 (size 4135 only) / 600

Middle support for guide rail 100 x 100 x 5, for large installation depths



Installation with accessories set 22 - Amamix 400 (size 4135 only) / 600

Dimensions [mm]

Ø D	Motor housing material	$H_{1\,min}$	L_{max}	M_{min}	N_{min}
400	G	205	783	460	1150
400	C	205	780	460	1150
600	G	315	949	700	1310
600	C	315	949	700	1390

Pitch adapter

General information

The guide bracket for the guide rail does not allow an inclined mixer position relative to the guide rail axis.

For duties requiring an upward or downward inclination of the submersible mixer a pitch adapter is required. The pitch adapter is fitted between the motor housing cover and the guide bracket. It enables the requisite inclination of the submersible mixer axis in increments of 10°, from 40° upwards to 40° downwards.

Exception:
Amamix 200 C/G - max. downward pitch of 10°[61)]
Amamix 600 C - max. upward or downward pitch of 30°
Amamix 600 G - max. upward or downward pitch of 15° or 30°[62)]

Amamix 200 only allows a downward pitch of up to 10°.

For variants with motor housing material stainless steel, the pitch adapter can be mounted on the guide bracket (in material 1.4571) without any problems. For variants with motor housing material grey cast iron, the pitch adapter cannot be mounted on the guide bracket (in EN-GJL-250) of Amamix 200/300/400. The following guide brackets (in material 1.4571) must be used in this case:

Description	Amamix						Material	Mat. No.	[kg]
	200		300		400[63)]				
	G	C	G	C	G	C			
Guide bracket for guide rail 60 x 60 x 3 mm	✗	-	✗	-	-	-	1.4571	19202241	3.4
Guide bracket for guide rail 60 x 60 x 3 mm	-	-	-	-	✗	-	1.4571	01307156	7
Guide bracket for guide rail 100 x 100 x 5 mm	-	-	-	-	-	✗	1.4571	19202242	8.79

When the submersible mixer is pitched downwards it may not be possible to shift the supporting clamp towards the motor housing cover far enough to still allow smooth lifting and lowering of the mixer (approx. 5° inclination of the guide bracket relative to the guide rail). In such cases, the supporting strap shown must be used (included in the pitch adapter assembly), which provides the user with a suitable attachment point. The attachment point is determined by the specified hole.

Selecting the attachment hole in the supporting strap required for downward pitch

1. Example: submersible mixer V222. / 1 4 UDG
2. V2... / 1 4 ...: see "Pitch 20°" column
3. See column "Tu": 2. L*

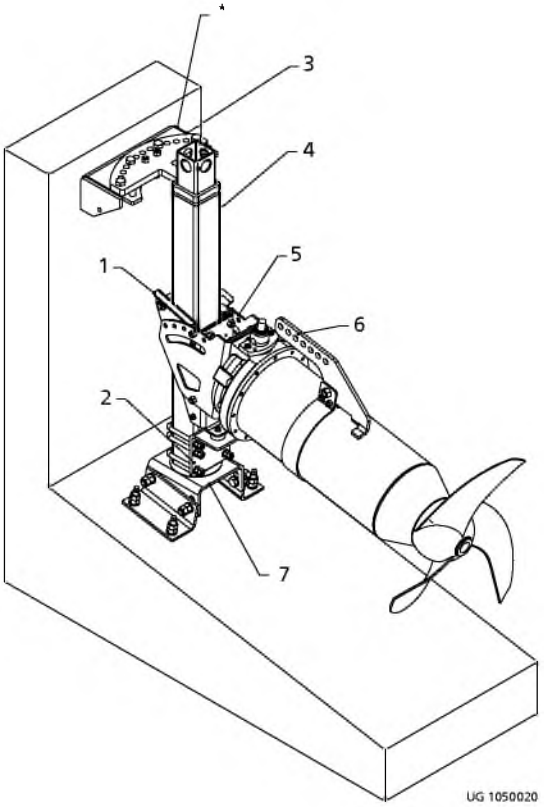
A supporting strap is required. Lifting tackle must be attached to the second hole from the left.

The power cable is protected against damage (chafing) by the supplied cable sleeve and cable ties.

61) With Amamix 200, the maximum pitch is 10°, as the motor housing is relatively short and does not allow an optimum position of the supporting strap. A pitch angle of 20°/30°/40° can be achieved with a specially designed supporting clamp (on request).
62) The pitch direction (upward or downward) must always be specified in the purchase order.
63) Except size 4135

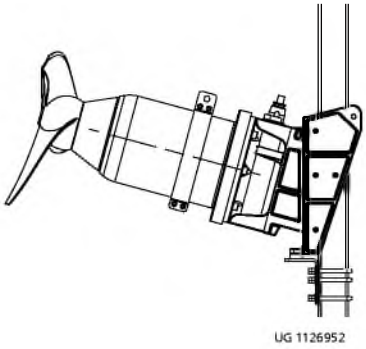
Overview of range

Amamix 200, 300, 400 (motor housing material grey cast iron, stainless steel)
Amamix 600 (motor housing material stainless steel)

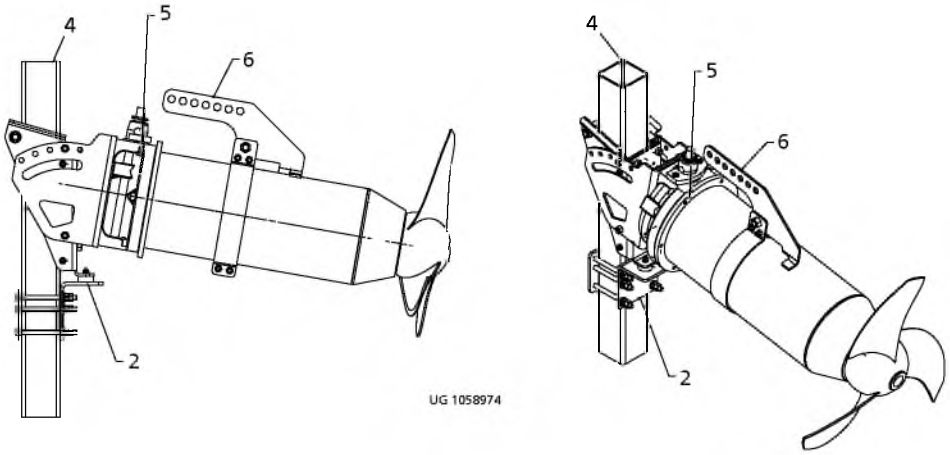


Mounted on sloping tank floor (0.5° - 10°) with pitch adapter fitted between guide bracket and motor housing cover (downward pitch)

Amamix 600 (motor housing material grey cast iron)



Installation example: 15° upward pitch



Side view/isometric view

*	Swivelling option through 45° to the left and right around the guide rail axis (in increments of 7.5°)	4	Guide rail
1	Guide bracket	5	Pitch adapter
2	Retaining bracket	6	Supporting strap[64)]
3	Upper holder	7	Lower guide rail holder

64) The supporting strap is required for downward pitch only.

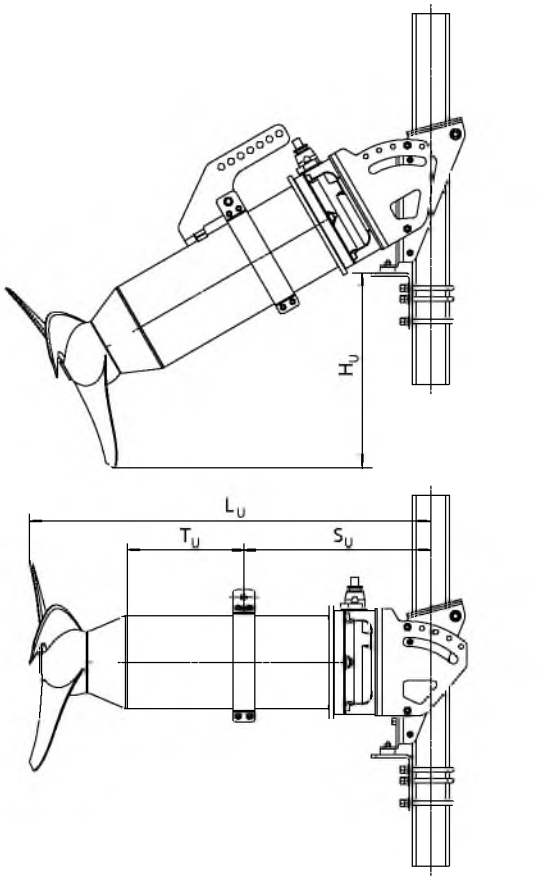
Overview of pitch adapters

Description	Amamix								Material	Mat. No.	[kg]
	200		300		400		600				
	G	C	G	C	G	C	G	C			
Pitch adapter	✗	✗	✗	✗	✗	✗	-	-	1.4571	19554654	4
	-	-	-	-	✗[65)]	✗[65)]	-	✗[66)]	1.4571	19554656	9
	-	-	-	-	-	-	-	✗[67)]	1.4571	19554655	9
	-	-	-	-	-	-	✗[68)]	-	EN-GJL-250	01137874	12.64
	-	-	-	-	-	-	✗[69)]	-	EN-GJL-250	01137876	20.35

65) Propeller 4135 only
66) With motor 4 12 only
67) With motor 8 12 only
68) 15°
69) 30°

Installation with downward pitch

For accessories set 22 - Amamix 200 - 600



Downward pitch adjustment

Downward pitch adjustment by 0°, 10°, 20°, 30°, 40°

Size		Pitch = 0°				Pitch = 10°				Pitch = 20°				Pitch = 30°				Pitch = 40°			
		H_U	L_O	S_U	T_U	H_U	L_U	S_U	T_U	H_U	L_U	S_U	T_U	H_U	L_U	S_U	T_U	H_U	L_U	S_U	T_U
		[mm]																			
V2...	/ 1 4...	< 0	560	225	265	30	585	240	1.L	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)
V2...	/ 2 4...	< 0	560	230	260	30	585	585	1.L	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)
C2...	/ 1 4...	< 0	560	230	230	40	585	250	245	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)
C2...	/ 2 4...	< 0	560	235	225	40	585	250	245	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)	70)
C29.../	/ 0 6...	13	709	275	255	150	744	285	280	245	759	285	305	335	754	285	2.L	415	729	270	4.L
C32...	/ 2 6...	13	709	275	255	150	744	285	280	245	759	285	305	335	754	285	2.L	415	729	270	4.L
C37.../	/ 3 8...	25	858	340	310	165	898	345	340	275	918	355	1.L	380	913	340	3.L	470	883	330	5.L
C41...	/ 4 8...	25	858	340	310	165	898	345	340	275	918	355	1.L	380	913	340	3.L	470	883	330	5.L
C57.../	/ 4 12...	100	1004	400	290	305	1074	415	325	430	1114	420	360	540	1129	420	390	71)	71)	71)	71)
C63...	/ 8 12...	100	1129	460	350	325	1194	475	385	470	1229	475	420	600	1234	470	455	71)	71)	71)	71)

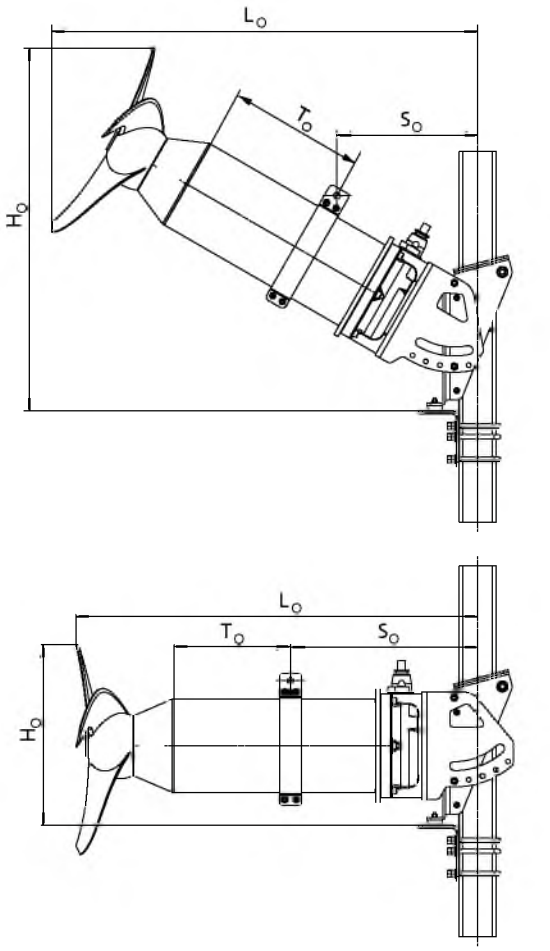
Downward pitch adjustment of 0°, 15°, 30°

Size		Pitch = 0°				Pitch = 15°				Pitch = 30°			
		H_U	L_U	S_U	T_U	H_U	L_U	S_U	T_U	H_U	L_U	S_U	T_U
		[mm]											
C57.../C63...	/ 6 12...	85	946	393	280	350	950	700	300	486	1048	579	320
	/ 10 12...	85	946	393	280	350	950	700	300	486	1048	579	320

70) On request only
71) Max. permissible pitch: 30°

Installation with upward pitch

For accessories set 22 - Amamix 200 - 600



Upward pitch adjustment

Upward pitch adjustment by 0°, 10°, 20°, 30°, 40°

Size		Pitch = 0°				Pitch = 10°				Pitch = 20°				Pitch = 30°				Pitch = 40°			
		H_o	L_o	S_o	T_o	H_o	L_o	S_o	T_o	H_o	L_o	S_o	T_o	H_o	L_o	S_o	T_o	H_o	L_o	S_o	T_o
		[mm]																			
V2...	/ 1 4...	260	560	225	265	350	585	240	245	440	595	250	220	520	585	255	190	595	560	260	150
V2...	/ 2 4...	260	560	230	260	350	585	245	240	440	595	255	215	520	585	260	185	595	560	260	150
C2...	/ 1 4...	270	560	230	230	360	585	250	210	450	595	255	190	530	590	260	165	600	565	260	135
C2...	/ 2 4...	270	560	235	225	360	585	255	205	450	595	260	185	530	590	265	160	600	565	260	130
C29.../	/ 0 6...	313	709	275	255	470	744	295	230	570	759	315	200	655	754	315	170	735	729	305	140
C32...	/ 2 6...	313	709	275	255	470	744	295	230	570	759	315	200	655	754	315	170	735	729	305	140
C37.../	/ 3 8...	385	858	340	310	630	898	360	285	740	918	380	250	845	913	290	210	935	883	390	160
C41...	/ 4 8...	385	858	340	310	630	898	360	285	740	918	380	250	845	913	290	210	935	883	390	160
C57.../	/ 4 12...	530	1004	400	290	765	1074	425	260	890	1114	440	225	1000	1129	445	185	72)	72)	72)	72)
C63...	/ 8 12...	530	1129	460	350	785	1194	485	320	930	1229	500	280	1060	1234	505	235	72)	72)	72)	72)

Upward pitch adjustment of 0°, 15°, 30°

Size		Pitch = 0°				Pitch = 15°				Pitch = 30°			
		H_o	L_o	S_o	T_o	H_o	L_o	S_o	T_o	H_o	L_o	S_o	T_o
		[mm]											
C57.../C63...	/ 6 12...	545	946	393	280	800	1079	400	250	1050	1116	360	230
	/ 10 12...	545	946	393	280	800	1079	400	250	1050	1116	360	230

72) Max. permissible pitch: 30°

Options: Amamix 200, 300 with guide bracket for guide rail 100 x 100 x 5 mm

The standard version of Amamix 200, 300 with accessories set 22 is designed for a 60 x 60 x 3 mm guide rail (new installations). If a 100 x 100 x 5 mm guide rail has been specified, or if a 100 x 100 x 5 mm guide rail is already installed (e.g. in the case of KSB replacement units), Amamix 200, 300 units can be equipped with the following guide brackets instead of the standard guide brackets:

Overview of guide brackets for Amamix 200, 300 with guide rail 100 x 100 x 5 mm

Description	Amamix				Material	Mat. No.	[kg]
	200		300				
	G	C	G	C			
Guide bracket for guide rail 100 x 100 x 5 mm	✗	-	✗	-	EN-GJL-250	19556701	13
Guide bracket for guide rail 100 x 100 x 5 mm	○[73)]	✗	○[73)]	✗	1.4571	19202242	8.79

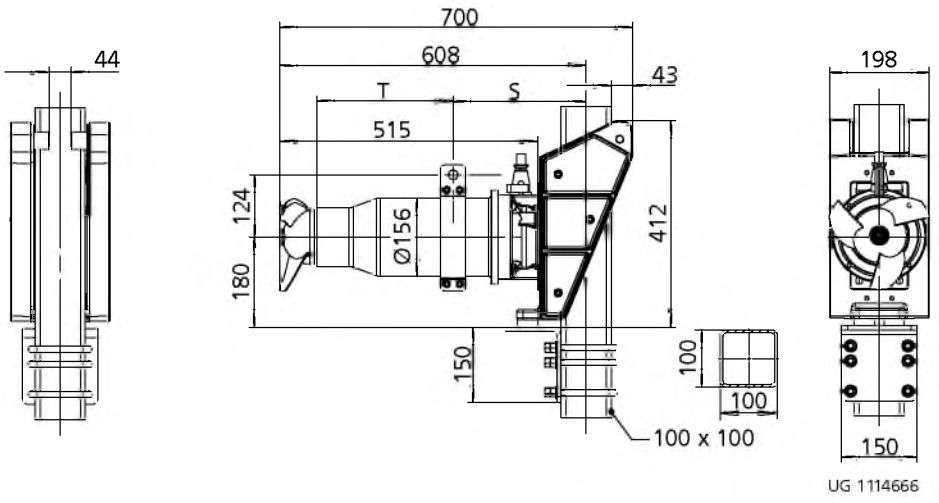
The guide brackets are already provided with the holes required for fastening the Amamix 200, 300 mixer.

Guide bracket mounted on motor housing cover with socket head cap screws

Description	Quantity	Thread	Tightening torque
Socket head cap screws	4	M8	17 Nm

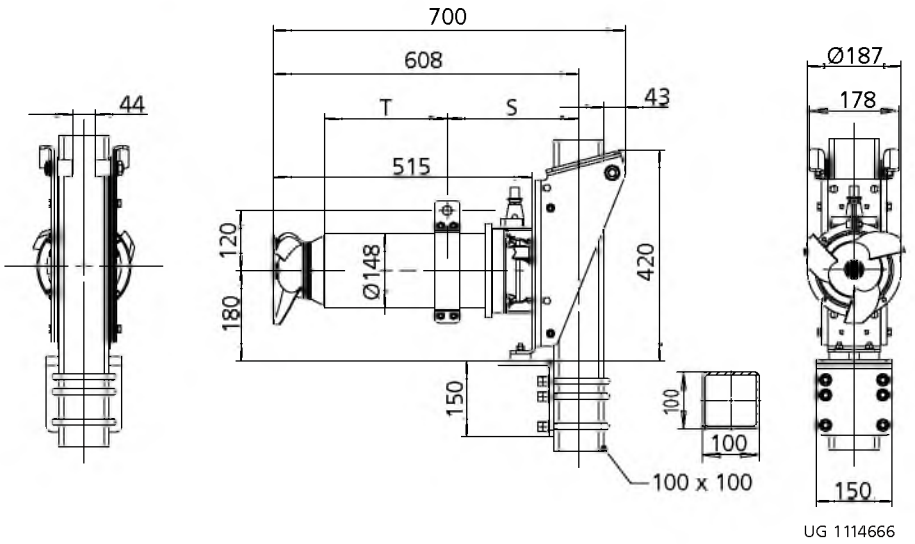
Compared to the technical data of the standard version (guide bracket for guide rail 60 x 60 x 3 mm), the complete unit weight, incl. guide bracket and 10-metre power cable, will be increased by 9.1 kg (motor housing material grey cast iron) or 5.1 kg (motor housing material stainless steel). A heavier guide bracket also results in different dimensions and a different position of the supporting clamp.

Dimensions of guide bracket for guide rail 100 x 100 x 5 mm

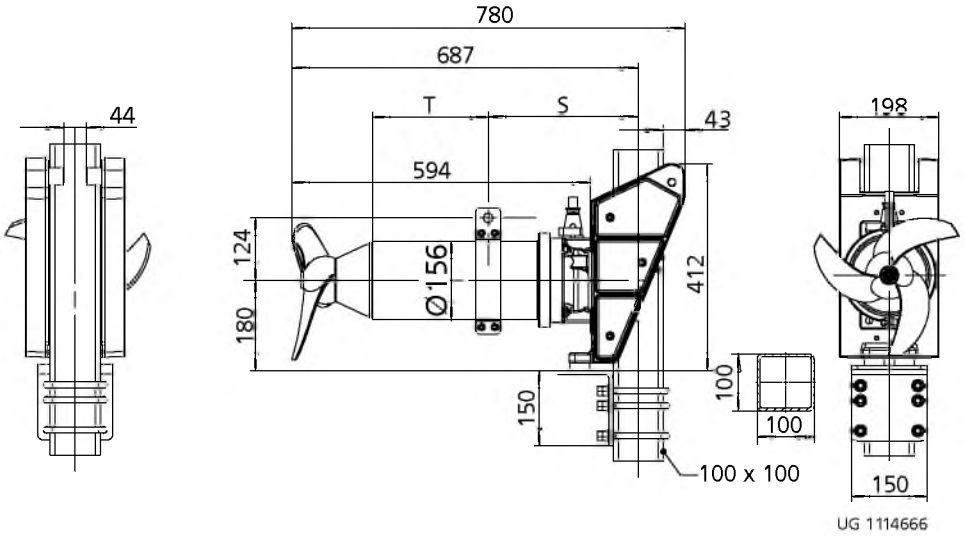


Amamix 200 G: S = 215 / T = 270, motor 1 4 = 43 kg, motor 2 4 = 43.5 kg

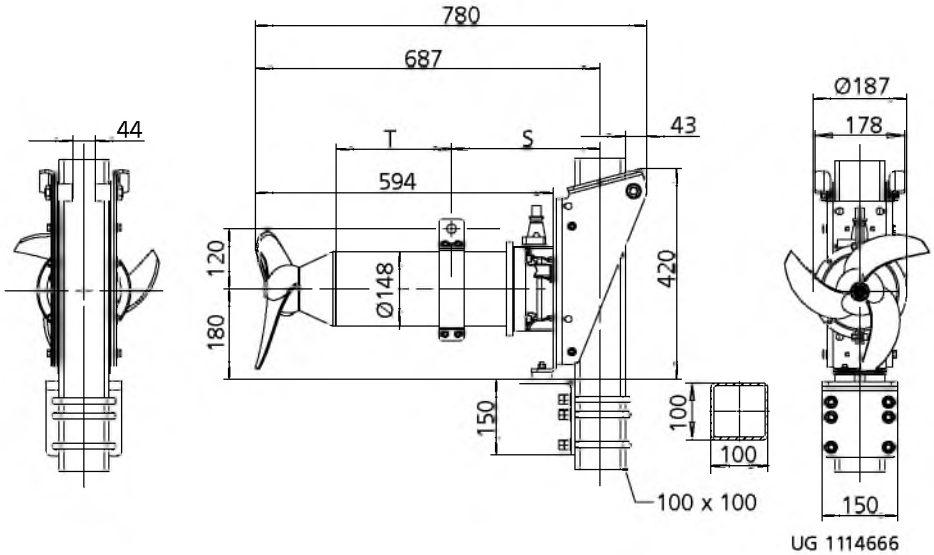
73) Optional



Amamix 200 C: S = 215 / T = 240 (motor 1 4) S = 220 / T = 235 (motor 2 4), motor 1 4 = 36.5 kg, motor 2 4 = 39 kg



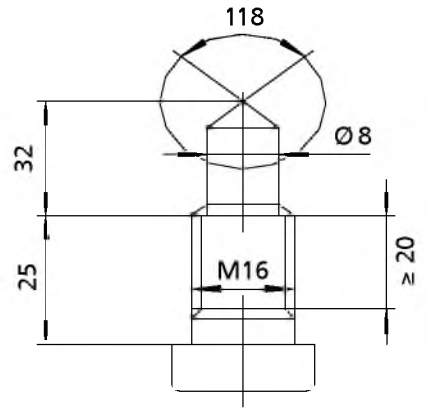
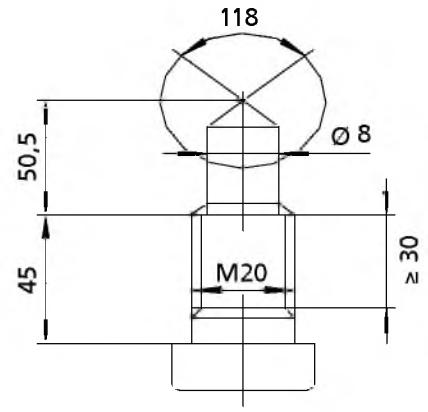
Amamix 300 G: S = 265 / T = 260, motor 0 6 / 2 6 = 55 kg



Amamix 300 C: S = 265 / T = 260, motor 0 6 / 2 6 = 48.5 kg

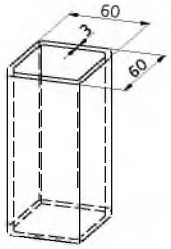
Forcing screws

Forcing screws

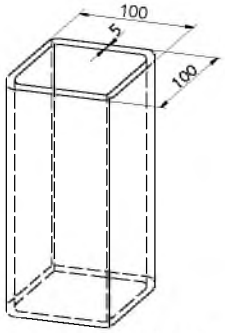
Size	Forcing screw		Mat. No.	[kg]
200	M16 x 60		11197135	0,1
300			11197135	0,1
400			11197135	0,1
600	M20 x 95		11197784	0,25

Guide rails

Overview of guide rails



Guide rail 60 x 60 x 3 mm



Guide rail 100 x 100 x 5 mm

Overview of guide rails

Description	Length	Amamix								Material	Mat. No.	[kg]
		200		300		400		600				
	[m]	G	C	G	C	G	C	G	C			
Guide rail 60 x 60 x 3 mm	1,5	✗	✗	✗	✗	✗	✗	-	-	1.4301	11307851	7.85
Guide rail 60 x 60 x 3 mm	1,5	✗	✗	✗	✗	✗	✗	-	-	1.4571	11307852	7.85
Guide rail 60 x 60 x 3 mm	3,0	✗	✗	✗	✗	✗	✗	-	-	1.4301	11304010	15.7
Guide rail 60 x 60 x 3 mm	3,0	✗	✗	✗	✗	✗	✗	-	-	1.4571	11304011	15.7
Guide rail 60 x 60 x 3 mm	6,0	✗	✗	✗	✗	✗	✗	-	-	1.4301	11304596	31.3
Guide rail 60 x 60 x 3 mm	6,0	✗	✗	✗	✗	✗	✗	-	-	1.4571	11304597	31.3
Guide rail 100 x 100 x 5 mm	3,0	-	-	-	-	✗	✗	✗	✗	1.4301	11304598	43.2
Guide rail 100 x 100 x 5 mm	3,0	-	-	-	-	✗	✗	✗	✗	1.4571	11304599	43.2
Guide rail 100 x 100 x 5 mm	6,0	-	-	-	-	✗	✗	✗	✗	1.4301	11304600	86.4
Guide rail 100 x 100 x 5 mm	6,0	-	-	-	-	✗	✗	✗	✗	1.4571	11304601	86.4

Wear-resistant adapter

Wear-resistant adapter (available against a surcharge)

If the fluid handled contains sand or similar abrasive particles, combining adapter 721 with a screwed-on wear-resistant casing wear ring is recommended.

Materials: adapter

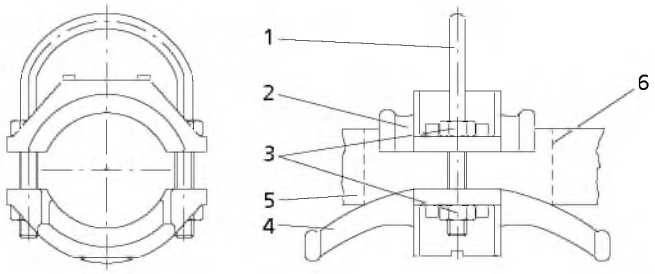
Component	Material	
	Standard design	Special design
Adapter	Polyurethane	Polyurethane
Casing wear ring	-	1.4021/hardened to HB400

The wear-resistant adapter (special design) is available on request.

Cable support/carabine hook

Cable support

The cable support is used for supporting the power cable at the lifting rope or tank edge (one included in standard scope of supply; additional or spare cable supports available).



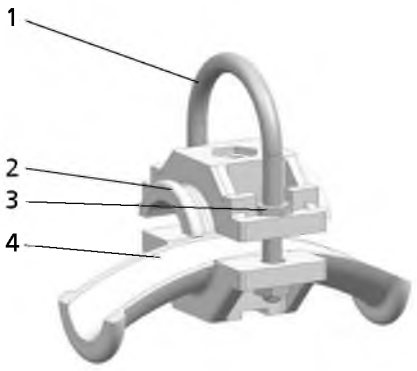
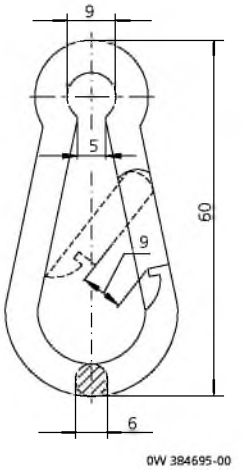


Illustration of cable support

1	Bail
2	Moulded part made of polypropylene
3	Hexagon nut made of A4
4	Moulded part made of polypropylene
5	Power cable with defined diameter[74)]
6	Rubber pad

For power cable diameters ≤ 10 or 17 mm respectively a rubber pad is inserted to make sure the cable is clamped properly.

Carabine hook



Dimensions of carabine hook [mm]

74) Refer to the power cable data given in the motor catalogue.

Overview of cable supports/carabine hooks

Description	Suitable for														Material	Mat. No.	[kg]
	1 4	2 4	5 4	11 4	16 4	23 4	0 6	2 6	3 8	4 8	4 12	6 12	8 12	10 12			
Cable support, incl. carabine hooks	x[75]	x[75]	-	-	-	-	x[75]	x[75]	-	-	-	-	-	-	Cable support: plastic / A4, carabine hook: A4	19555522	0.06
Cable support, incl. carabine hooks	-	-	x[76]	x[76]	x[76]	x[76]	-	-	x[76]	x[76]	x[76]	x[76]	x[76]	x[76]	Cable support: plastic / A4, carabine hook: A4	19555523	0.09

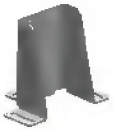
75) Diameter of power cable Ø = 10-16 mm
76) Diameter of power cable Ø = 17-25 mm

Scope of supply

Depending on the design variant the following components are included in the scope of supply:

Accessories of accessories set 6

- Stand for floor mounting



- Chemical anchors

Accessories of accessories set 7

- Chemical anchors

- Guide rail
  with guide rail extension if required

- Lower holder
  for mounting on the sump/tank wall or benching

- Upper holder

- Retaining bracket

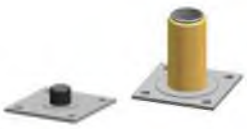
- Guide bracket
  Version C or version G,
  usually supplied fitted to the mixer

Accessories of accessories set 22

- Chemical anchors

- Guide rail
  with guide rail extension if required

- Lower holder
  for mounting on a horizontal tank floor (0° - 0.5°)
  Version 60 x 60 or 100 x 100 mm



- Lower holder
  for mounting on a sloping tank floor (0.5° - 10°)

- Lower holder
  for mounting on an inclined tank floor or on the sump/tank wall (10° - 90°)

- Upper holder
  Version 60 x 60 or 100 x 100 mm

- Retaining bracket
  Version 60 x 60 mm or 100 x 100 mm

- Guide bracket
  Version C, version G,
  usually supplied fitted to the mixer

Special accessory - Middle support for guide rail

Special accessory - Supporting strap

Fastened to the mixer via the supporting clamp if a pitch adapter is used; usually fitted at the factory (included in the pitch adapter assembly)

Special accessory - Bail

Fastened to the mixer via the supporting clamp; usually fitted at the factory

Special accessory - Pitch adapter

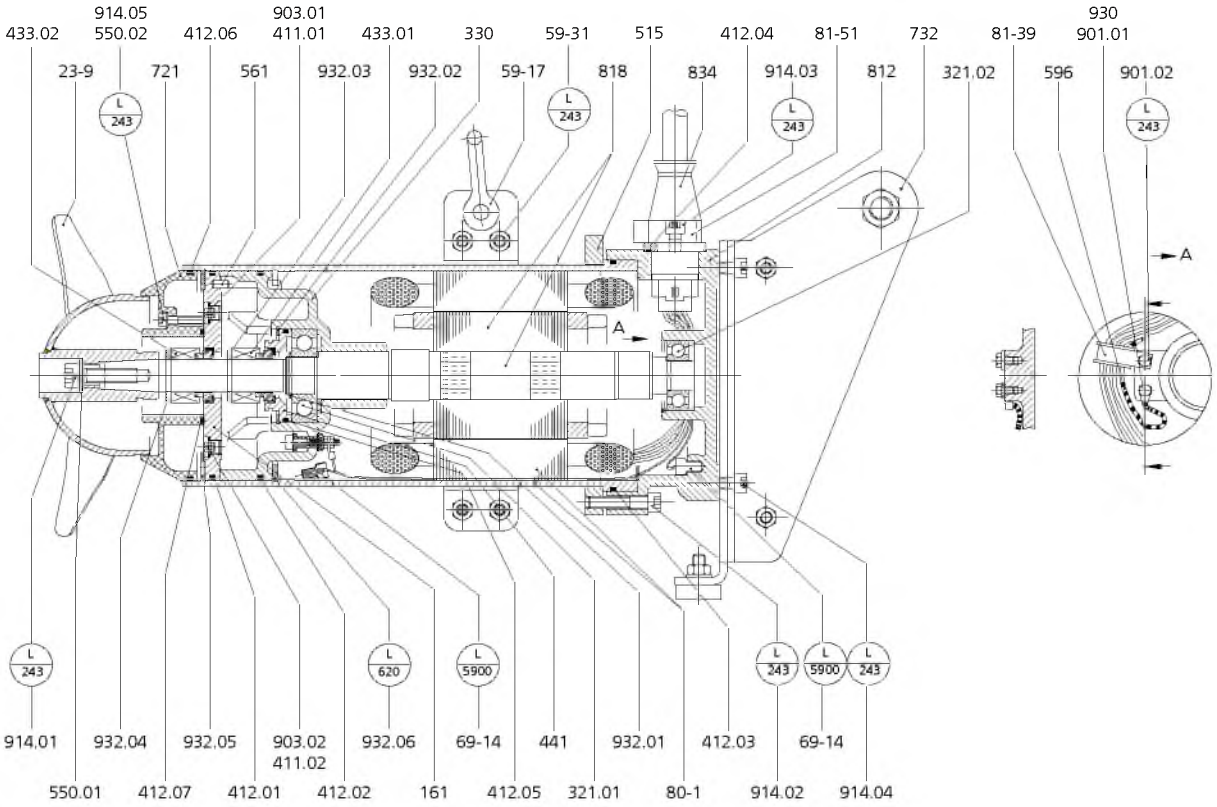
Usually fitted between the motor housing cover and the guide bracket at the factory

Special accessory - Pitch adapter for Amamix 600 G

Always fitted between the motor housing cover and the guide bracket at the factory

General assembly drawings with list of components

Amamix 200 - motor housing material stainless steel

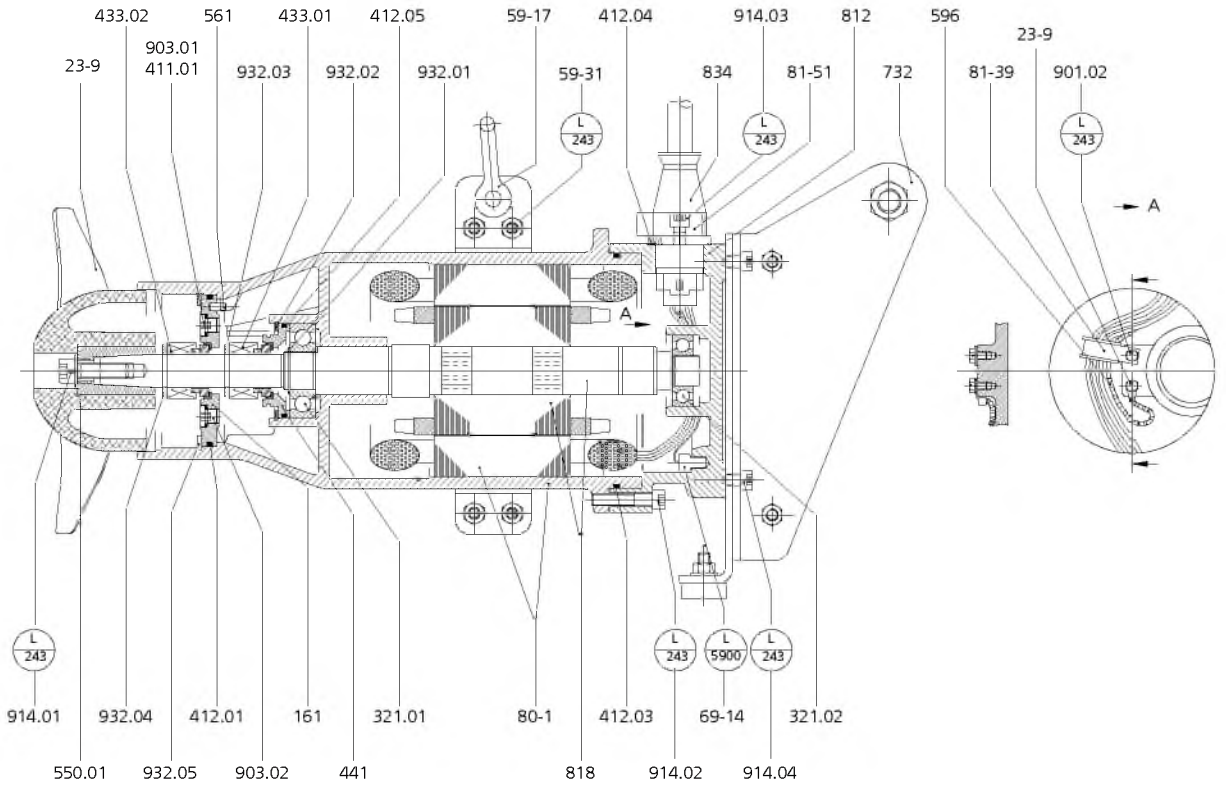


General assembly drawing of Amamix 200, motor housing material stainless steel

List of components of Amamix 200, motor housing material stainless steel

Part No.	Description	Part No.	Description
161	Casing cover	69-14	Leakage monitor
23-9	Axial propeller	721	Adapter
321	Radial ball bearing	732	Guide bracket (accessory)
330	Bearing bracket	80-1	Motor unit
411	Joint ring	81-39	Clamp
412	O-ring	81-51	Clamping element
433	Mechanical seal	812	Motor housing cover
441	Shaft seal housing	818	Rotor
515	Taper lock ring	834	Cable gland
550	Disc	901	Hexagon head bolt
561	Grooved pin	903	Screw plug
59-17	Shackle	914	Hexagon socket head cap screw
59-31	Supporting clamp	930	Safety device
596	Wire	932	Circlip

Amamix 200 - motor housing material grey cast iron

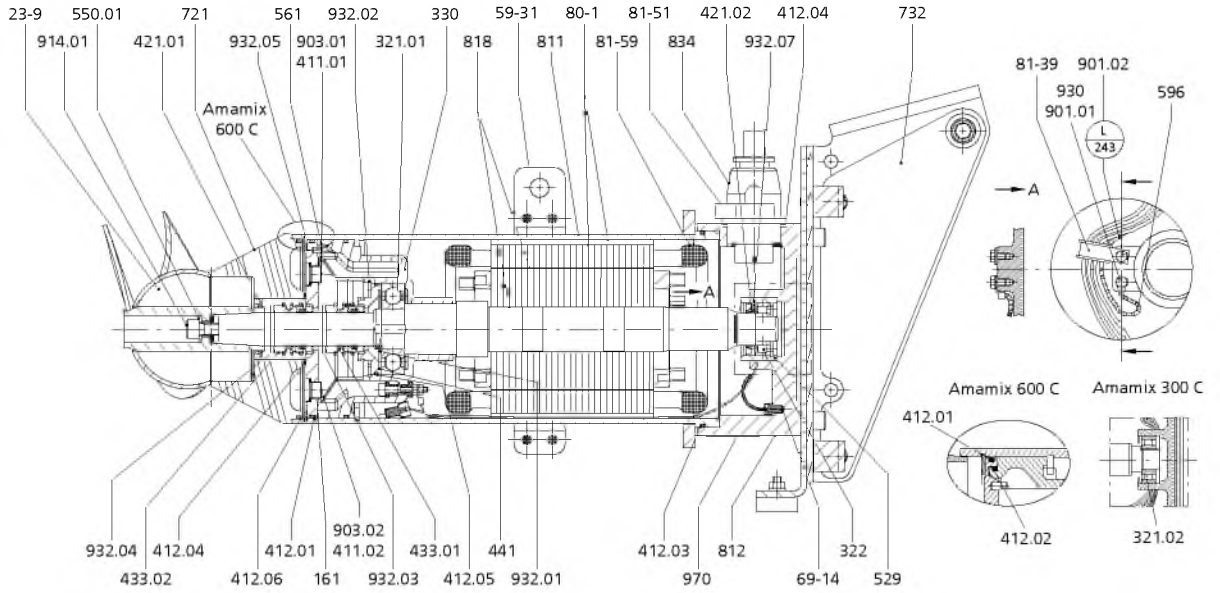


General assembly drawing of Amamix 200, motor housing material grey cast iron

List of components of Amamix 200, motor housing material grey cast iron

Part No.	Description	Part No.	Description
161	Casing cover	732	Guide bracket (accessory)
23-9	Axial propeller	80-1	Motor unit
321	Radial ball bearing	81-39	Clamp
411	Joint ring	81-51	Clamping element
412	O-ring	812	Motor housing cover
433	Mechanical seal	818	Rotor
441	Shaft seal housing	834	Cable gland
550	Disc	901	Hexagon head bolt
561	Grooved pin	903	Screw plug
59-17	Shackle	914	Hexagon socket head cap screw
59-31	Supporting clamp	930	Safety device
596	Wire (earth connection)	932	Circlip
69-14	Leakage monitor		

Amamix 300/400/600 - motor housing material stainless steel

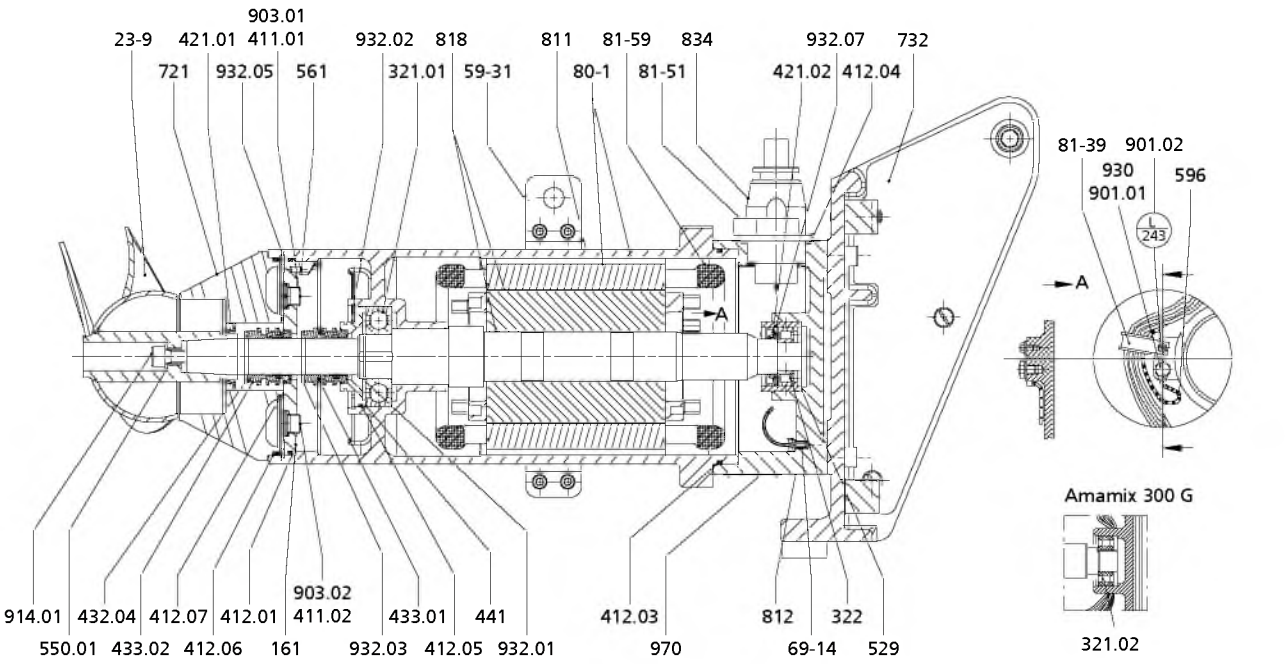


General assembly drawing of Amamix 300/400/600, motor housing material stainless steel

List of components of Amamix 300/400/600, motor housing material stainless steel

Part No.	Description	Part No.	Description
161	Casing cover	721	Adapter
23-9	Axial propeller	732	Guide bracket (accessory)
321	Radial ball bearing	80-1	Motor unit
322	Radial roller bearing	81-39	Clamp
330	Bearing bracket	81-51	Clamping element
411	Joint ring	81-59	Stator
412	O-ring	811	Motor housing
421	Lip seal	812	Motor housing cover
433	Mechanical seal	818	Rotor
441	Shaft seal housing	834	Cable gland
529	Bearing sleeve	901	Hexagon head bolt
550	Disc	903	Screw plug
561	Grooved pin	914	Hexagon socket head cap screw
59-31	Supporting clamp	930	Safety device
596	Wire (earth connection)	932	Circlip
69-14	Leakage monitor	970	Label/plate

Amamix 300/400/600 - motor housing material grey cast iron



General assembly drawing of Amamix 300/400/600, motor housing material grey cast iron

List of components of Amamix 300/400/600, motor housing material grey cast iron

Part No.	Description	Part No.	Description
161	Casing cover	721	Adapter
23-9	Axial propeller	732	Guide bracket (accessory)
321	Radial ball bearing	80-1	Motor unit
322	Radial roller bearing	81-51	Clamping element
411	Joint ring	81-59	Stator
412	O-ring	811	Motor housing
421	Lip seal	812	Motor housing cover
433	Mechanical seal	818	Rotor
441	Shaft seal housing	834	Cable gland
529	Bearing sleeve	901	Hexagon head bolt
550	Disc	903	Screw plug
561	Grooved pin	914	Hexagon socket head cap screw
59-31	Supporting clamp	930	Safety device
596	Wire (earth connection)	932	Circlip
69-14	Leakage monitor	970	Label/plate

Enquiry sheet

To:

KSB Aktiengesellschaft

Turmstraße 92

06110 Halle/Saale (Germany)

Tel.: +49 345 4826-4879/4680

Fax: +49 345 4826-5107

From:

Company name	
Contact person	
Street/number	
Post/zip code, city	
Country	
Telephone number	
Fax number	
E-mail	

Project name

Mains frequency:

☐ 50 Hz
☐ 60 Hz

Mains voltage:

U [V]	

Fluid

Solids content:

[%]	

Temperature:

T [°F]	
T [°C]	

Density:

[lbs/inch]	
[kg/m³]	

Viscosity (at shear rate):

[cp.]	
[mPas]	

Loss on ignition:

[%]	

Sludge index:

[ml/g]	

Explosion protection:

☐ Yes
☐ No

Type of fluid:

☐ Activated sludge
☐ Municipal sewage sludge (primary/secondary)
☐ Digested sludge
☐ Raw waste water
☐ Other:

Flow behaviour:

☐ Newtonian (e.g. water)
☐ Pseudoplastic (e.g. thickened sewage sludge)
☐ Thixotropic (z. B. dispersion paint)
☐ Other:

Thickening method:

☐ Not thickened
☐ Static
☐ Mechanical by centrifuge / screening drum

Application of polymers:

☐ Yes
☐ No

Installation parts

Floor mounting (accessories set 6):

☐ A 276 Type 304 (1.4301)
☐ A 276 Type 316 Ti (1.4571)

Pump sump (accessories set 7):

☐ A 276 Type 304 (1.4301)
☐ A 276 Type 316 Ti (1.4571)

Tank (accessories set 22):

☐ A 276 Type 304 (1.4301)
☐ A 276 Type 316 Ti (1.4571)

Guide rail (accessories sets 7 and 22):

☐ A 276 Type 304 (1.4301)
☐ A 276 Type 316 Ti (1.4571)

Lifting equipment (crane)

Material:

☐ Galvanised steel
☐ A 276 Type 304 (1.4301)
☐ Aluminium

Aeration

Aeration method:

☐ None

Surface aeration:

☐ Brush aerator (e.g. Mammoth Rotor)
☐ Vertical shaft impeller

Subsurface aeration:

☐ Pipe diffusers
☐ Disc diffusers
☐ Plate diffusers
☐ Jet aerator

Air supply:

[scfm]	
[$m^3{}_N/h$]	

Aerated area:

[ft^2]	
[m^2]	

Number of aerated zones:

n [quantity]	

Tank/reservoir

Material:

☐ Concrete
☐ Steel
☐ Stainless steel
☐ Plastic
☐ Steel, enamelled

Coating:

Design:

☐ Covered
☐ Open

Tank geometry:

☐ Round
☐ Ring channel
☐ Square
☐ Rectangular
☐ Tank with circulating flow:
With curved deflector plates:
☐ Yes ☐ No
☐ Tank with meandering flow:
With curved deflector plates:
☐ Yes ☐ No
☐ Other:

Dimensions

Length:

[ft]	
[m]	

Width:

[ft]	
[m]	

Inside diameter:

D [ft]	
D [m]	

Fill level:

[ft]	
[m]	

Tank depth:

[ft]	
[m]	

Other:

По вопросам продаж и поддержки обращайтесь:

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